

$G1 := 176*y[1]-1036/3*y[8]+632/3*y[9]+544/3*y[10]-60*y[11]-22*y[12]+152*y[13]-\backslash$
 $802*y[21]+531*y[22]+590*y[23]-1625/3*y[24]+292/3*y[25]+60*y[26]-1595/3*y[27]+$
 $805*y[28]-90*y[29]+48*y[30]-108*y[31]-144*y[32]-306*y[33]+144*y[34]+450*y[35]+$
 $36*y[36]+168*y[37];$
 $G2 := 176*y[1]+368/3*y[8]-544/3*y[9]-512/3*y[10]+80*y[11]+56*y[12]-112*y[13]+$
 $176*y[21]-252*y[22]+560*y[23]+880/3*y[24]-248/3*y[25]-240*y[26]+760/3*y[27]-\backslash$
 $410*y[28]+126*y[29]-96*y[30]+216*y[31]+288*y[33]-192*y[34]-600*y[35]-288*y[36]$
 $-96*y[37];$
 $G3 := -145/3*y[1]+77*y[2]+6*y[7]-149/6*y[14]+263/6*y[15]+14/3*y[16]-133/6*y[17]$
 $+187/12*y[18]-51/8*y[19]+3/2*y[20]+361/16*y[29]-65/4*y[30]-81*y[31]-117/2*y[$
 $32]+61/4*y[33]+49/3*y[34]+215/3*y[35]-39*y[36]-157/6*y[37];$
 $G4 := -130*y[1]+308/3*y[2]+56/3*y[7]-21/2*y[14]+298/3*y[15]+28*y[16]-133/3*y[$
 $17]+187/6*y[18]-151/4*y[19]+49/3*y[20]-299/8*y[29]+111/2*y[30]-489/2*y[31]-29*$
 $y[32]+61/2*y[33]+98/3*y[34]+430/3*y[35]-78*y[36]-91/3*y[37];$
 $G5 := -55*y[1]+77*y[2]+22*y[7]-13*y[14]+67/2*y[15]+31*y[16]-67/2*y[17]+33/4*y[$
 $18]-387/8*y[19]+71/2*y[20]+57/16*y[29]+39/4*y[30]-279/2*y[31]-117/2*y[32]+57/4$
 $*y[33]+39*y[34]+60*y[35]-93*y[36]-81/2*y[37];$
 $G6 := 238/9*y[2]+14/3*y[3]+262/27*y[8]+493/27*y[9]-302/27*y[10]+229/54*y[11]-\backslash$
 $109/4*y[12]+7/3*y[13]-205/18*y[14]+10/3*y[15]+280/27*y[16]+130/9*y[17]-785/54*$
 $y[18]-125/6*y[19]+50/3*y[21]+115/4*y[22]-725/9*y[23]+355/18*y[24]+15*y[25]+25*$
 $y[26]+605/18*y[27]-155/12*y[28];$
 $G7 := 280/3*y[2]+2*y[3]+88/9*y[8]+112/9*y[9]-278/9*y[10]+68/9*y[11]-42*y[12]+$
 $28*y[13]-170/3*y[14]+40*y[15]-56/9*y[16]-80/3*y[17]+200/9*y[18]+20*y[19]-20*y[$
 $20]+200*y[21]-105*y[22]+100/3*y[23]+410/3*y[24]+30*y[25]+50*y[26]+160/3*y[27]-\backslash$
 $5*y[28];$
 $G8 := 28/3*y[2]+2*y[3]+223/9*y[8]+127/9*y[9]-23/9*y[10]+151/18*y[11]-53/4*y[12]$
 $-7*y[13]-25/6*y[14]-20*y[15]+70/9*y[16]+10/3*y[17]-185/18*y[18]-35/2*y[19]-50$
 $*y[21]+255/4*y[22]-275/3*y[23]-5/6*y[24]+5*y[25]+50*y[26]+245/6*y[27]+55/4*y[$
 $28];$
 $G9 := -56/3*y[2]+14*y[3]+49/9*y[8]+616/9*y[9]+301/9*y[10]+14/9*y[11]-31*y[12]-\backslash$
 $6*y[13]+100/3*y[14]-80*y[15]+364/9*y[16]+160/3*y[17]-445/9*y[18]-40*y[19]-150*$
 $y[21]+210*y[22]-950/3*y[23]-70/3*y[24]-35*y[25]+25*y[26]+55/3*y[27]+10*y[28];$
 $G10 := 88*y[1]+22*y[4]+390*y[21]-243*y[22]+150*y[23]+225*y[24]+75*y[25]+70*y[$
 $26]+90*y[27]-30*y[28]-330*y[38]-132*y[39]-330*y[40];$
 $G11 := 2*y[4]-5*y[5]-32/3*y[8]-8*y[9]-4*y[11]+8*y[12]-4*y[13]-18*y[31]-192/5*y$
 $[32]+56/5*y[34]-10*y[35]-36*y[36]-56/5*y[37]-10*y[38]-10*y[39]-220/3*y[40];$
 $G12 := -147/5*y[2]+y[4]+20*y[5]-8/3*y[8]-2*y[9]-16*y[10]-2*y[11]-19*y[12]+5*y[$
 $13]-54/5*y[30]+27/2*y[31]+24/5*y[32]-6*y[33]+98/5*y[34]-55*y[35]-14/5*y[37]+95$
 $*y[38]+65*y[39]+140/3*y[40];$
 $G13 := 28/9*y[2]-26/9*y[4]-10*y[5]+160/27*y[8]-8/9*y[9]-32/9*y[10]+8/3*y[11]+8$
 $/9*y[12]-4/9*y[13]-4*y[29]+16/3*y[30]+10*y[31]+256/15*y[32]+20/3*y[33]-56/5*y[$
 $34]-40/3*y[35]+8/3*y[36]+224/45*y[37]+95/9*y[38]-10/9*y[39]+1040/27*y[40];$
 $G14 := 119/15*y[2]-5/3*y[4]-15*y[5]+64/9*y[8]-14/3*y[9]-8/3*y[10]+2*y[11]+23/3$
 $*y[12]-25/3*y[13]+18*y[29]-94/5*y[30]+15/2*y[31]-56/5*y[32]+20*y[33]-42/5*y[34]$
 $-25*y[35]-16*y[36]-112/15*y[37]+20/3*y[38]+5/3*y[39]+290/9*y[40];$
 $G15 := -2*y[3]+95/3*y[5]-250/3*y[21]+15*y[22]+70*y[23]-595/9*y[24]+5*y[25]-25*$
 $y[26]-50/9*y[27]-25*y[28];$
 $G16 := 6/5*y[3]+3*y[5]+9*y[21]-27/2*y[22]+9*y[23]+23/2*y[24]-14*y[25]-30*y[26]$
 $+5/2*y[27]-75/2*y[28];$
 $G17 := -25*y[5]+36*y[6]+20*y[14]-8*y[16]+10*y[20]-30*y[30]-6*y[32]+14*y[34]-35$
 $*y[35]+11*y[37];$
 $G18 := -25/3*y[5]+80/3*y[6]+20*y[14]-80/9*y[15]-16/9*y[16]+40/9*y[17]+10*y[19]$
 $+20/9*y[20]+20/3*y[29]-80/3*y[30]+10*y[31]+55/3*y[33]-175/3*y[35]-10*y[36];$
 $G19 := 22*y[7]-220/3*y[41]-28*y[42]-56/3*y[43]-14*y[44]+70/3*y[45]-42*y[46]+70$
 $*y[47]-20/3*y[48]+50/3*y[49]+50*y[50]+45*y[51]-24*y[52]-75*y[53]+36*y[54]-75*y$
 $[55]-48*y[56]+81*y[57]+72*y[58];$
 $G20 := -440/27*y[1]-286/9*y[7]+4562/81*y[8]-94/3*y[9]-10090/81*y[10]+766/27*y[$
 $11]-823/9*y[12]+127/3*y[13]+2836/81*y[42]-470/81*y[43]-880/81*y[44]+100/9*y[45]$
 $+440/27*y[46]-470/9*y[47]+2140/81*y[48]-20935/81*y[49]+19655/27*y[50]-284/3*y$
 $[51]+50*y[59]+6730/27*y[60]-1780/3*y[61]-500/27*y[62]+12230/81*y[63]+1295/9*y[$
 $64]+1500*y[65]+1780/27*y[66]-17530/27*y[67]-34/9*y[68]-2210/9*y[69]-525*y[70]+$
 $3724/9*y[71]+8975/9*y[72]+610/9*y[73]+62/9*y[74]-64/45*y[75]+920/81*y[76]+3080$
 $/27*y[77]-2044/81*y[78]-440/27*y[79]-31/3*y[80]-410/9*y[81];$
 $G21 := 42*y[1]+18*y[7]-77/4*y[8]+33*y[9]-11/4*y[10]-11*y[11]-9*y[42]-75/2*y[43]$
 $+105*y[44]-205/2*y[45]-147*y[46]+160*y[47]+25*y[48]+5/2*y[49]+15/2*y[50]-243/$
 $8*y[51]-135/2*y[59]-115/4*y[60]+135/2*y[61]+5/2*y[62]-45*y[63]+105/4*y[64]+405$
 $/2*y[65]+15/2*y[66]-345/4*y[67]+72*y[68]-135*y[69]+315/4*y[70]-327/4*y[71]-135$
 $/2*y[73]-41*y[74]+249/10*y[75]-205*y[76]-105*y[77]+141/2*y[78]-40*y[79]-12*y[$

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80]+36*y[81];
G22 := 4*y[1]-14*y[7]+49/3*y[8]-2*y[9]-56/3*y[10]+16*y[11]-27*y[12]+18*y[13]-\
10/3*y[42]+29/3*y[43]-56/3*y[44]+15*y[45]+10*y[46]-10*y[47]-10/3*y[48]-275/3*y
[49]+220*y[50]-99/4*y[51]+230/3*y[60]-180*y[61]-20/3*y[62]+170/3*y[63]+105/2*y
[64]+540*y[65]+20*y[66]-230*y[67]-12*y[68]-60*y[69]-315/2*y[70]+261/2*y[71]+
285*y[72]+55/2*y[73]+11*y[74]-99/10*y[75]-110/3*y[76]-11/3*y[78]+33/2*y[81];
G23 := 44*y[7]-24*y[8]+4*y[9]+120*y[10]-20*y[11]+114*y[12]-78*y[13]+330*y[49]-\
990*y[50]+165*y[51]-920/3*y[60]+720*y[61]+80/3*y[62]-460/3*y[63]-210*y[64]-\
2160*y[65]-80*y[66]+920*y[67]-40*y[68]+460*y[69]+630*y[70]-500*y[71]-1250*y[72
];
G24 := 90*y[1]-18*y[7]+163/4*y[8]+71*y[9]-323/4*y[10]+4*y[11]-81*y[12]+54*y[13
]-42*y[42]-75/2*y[43]+105*y[44]-205/2*y[45]-180*y[46]+215*y[47]+25*y[48]-545/2
*y[49]+1335/2*y[50]-837/8*y[51]-135/2*y[59]+805/4*y[60]-945/2*y[61]-35/2*y[62]
+70*y[63]+735/4*y[64]+3645/2*y[65]+135/2*y[66]-3105/4*y[67]+102*y[68]-480*y[69
]-1575/4*y[70]+1173/4*y[71]+855*y[72]-135/2*y[73]-41*y[74]+249/10*y[75]-425*y[
76]-105*y[77]+97/2*y[78]+15*y[79]+9/2*y[80]+36*y[81];
G25 := 136/9*y[1]-34/3*y[7]-712/27*y[8]+2*y[9]-568/27*y[10]-44/9*y[11]-31/3*y[
12]+25*y[13]+172/27*y[42]-704/27*y[43]+596/27*y[44]-20/3*y[45]-460/9*y[46]+160
/3*y[47]+70/27*y[48]-2125/27*y[49]+2825/9*y[50]-73/2*y[51]+15*y[59]+520/9*y[60
]-160*y[61]+40/9*y[62]+800/27*y[63]+385/6*y[64]+720*y[65]+520/9*y[66]-3040/9*y
[67]+11/3*y[68]-500/3*y[69]-315/2*y[70]+421/3*y[71]+1055/3*y[72]-155/3*y[73]-\
13/3*y[74]+26/15*y[75]-1600/27*y[76]-700/9*y[77]+2456/27*y[78]-260/9*y[79]-29/
2*y[80]-23/3*y[81];
G26 := 20/27*y[1]+292/9*y[7]-9229/162*y[8]+58/3*y[9]+8573/162*y[10]-646/27*y[
11]+415/9*y[12]-37/3*y[13]-286/81*y[42]-3280/81*y[43]+5926/81*y[44]-550/9*y[45
]-1829/27*y[46]+770/9*y[47]-1165/81*y[48]+13120/81*y[49]-8165/27*y[50]+80/3*y[
51]-35*y[59]-9305/54*y[60]+1165/3*y[61]+575/27*y[62]-9110/81*y[63]-1435/18*y[
64]-555*y[65]+5/27*y[66]+11645/54*y[67]+274/9*y[68]+260/9*y[69]+525/2*y[70]-\
3797/18*y[71]-3875/9*y[72]-715/9*y[73]-272/9*y[74]+799/45*y[75]-410/81*y[76]-\
3290/27*y[77]+10105/81*y[78]-520/27*y[79]-29/3*y[80]+170/9*y[81];
G27 := -91/10*y[2]-325/12*y[8]-293/21*y[9]+359/14*y[10]-515/84*y[11]+53/14*y[
12]+155/14*y[13]-35/4*y[14]-299/14*y[15]-8707/420*y[16]+185/42*y[17]-121/168*y
[18]+627/28*y[19]-223/14*y[20]-115/3*y[41]-484/5*y[52]+175/2*y[53]+52*y[54]+
1275/7*y[55]+22158/35*y[56]-441/2*y[57]-294*y[58]-25/84*y[60]-275/42*y[61]-5/
84*y[62]-9425/126*y[63]+125/4*y[64]+2025/14*y[65]-1395/28*y[66]-6975/28*y[67]+
115/14*y[68]+575/14*y[69]-1725/28*y[72]-125/4*y[73]+15/2*y[74]-12*y[75]+100*y[
76]-75/4*y[77]-50*y[78]+135/2*y[81];
G28 := 21/2*y[2]+141/4*y[8]+27*y[9]-137/6*y[10]+115/12*y[11]-13*y[12]-7*y[13]-\
5/12*y[14]+19/2*y[15]+847/60*y[16]-55/2*y[17]+281/24*y[18]-77/4*y[19]+59/6*y[
20]+35*y[41]+132/5*y[52]+15*y[53]+8*y[54]-945/4*y[55]-3006/5*y[56]+216*y[57]+
204*y[58]+175/4*y[60]-75/2*y[61]+35/4*y[62]+475/6*y[63]-125/4*y[64]-525/2*y[65
]+295/4*y[66]+1475/4*y[67]-15/2*y[68]-75/2*y[69]+225/4*y[72]+125/4*y[73]-5*y[
74]+3*y[75]-100/3*y[76]+25/4*y[77]+110/3*y[78]-45/2*y[81];
G29 := 8/3*y[8]-88/21*y[9]-40/21*y[10]-8/7*y[11]+6/7*y[12]+12/7*y[13]+4/3*y[14
]-32/7*y[15]+88/21*y[16]+176/21*y[17]-44/7*y[18]-32/7*y[19]+22/21*y[20]+570/7*
y[55]+1056/7*y[56]-120*y[57]+200/21*y[60]-80/21*y[61]+40/21*y[62]-1100/63*y[63
]+5*y[64]+80/7*y[65]-40/7*y[66]-200/7*y[67]+220/21*y[68]+1100/21*y[69]-15*y[70
]-200/7*y[72];
G30 := -5*y[8]-80/21*y[9]-10/7*y[10]-25/21*y[11]+15/7*y[12]+30/7*y[13]+10/3*y[
14]+60/7*y[15]+22/7*y[16]+160/21*y[17]-275/42*y[18]-80/7*y[19]+55/21*y[20]+900
/7*y[55]+792/7*y[56]-120*y[57]-125/7*y[60]+500/21*y[61]-25/7*y[62]-1000/63*y[
63]-500/7*y[65]+75/7*y[66]+375/7*y[67]+200/21*y[68]+1000/21*y[69]-25*y[71]-500
/7*y[72];
G31 := -14/3*y[8]-28/3*y[9]+4/3*y[10]-4/3*y[11]-3*y[14]+8*y[15]-44/15*y[16]+32
/3*y[17]-22/3*y[18]-6*y[19]+4*y[20]-16/3*y[41]-56/5*y[52]+10*y[53]+45*y[55]+
912/5*y[56]-54*y[57]-72*y[58]-50/3*y[60]+40/3*y[61]-10/3*y[62]-200/9*y[63]+10*
y[64]+120*y[65]-30*y[66]-150*y[67];
G32 := -5/4*y[8]+5*y[9]-5/4*y[10]-5/2*y[11]-15/2*y[15]+2*y[16]-10*y[17]+5*y[18
]+6*y[41]-72/5*y[52]+45/2*y[53]+27*y[54]-135/4*y[55]-216/5*y[56]+27*y[58]-15*y
[59]+25/4*y[60]-5*y[61]+5/4*y[62]+25/3*y[63]-15/4*y[64]-45*y[65]+45/4*y[66]+
225/4*y[67]+75/4*y[73]+15/4*y[74]-9/2*y[75]+25*y[76]-45/4*y[77]+15/2*y[78];
G33 := 51/2*y[8]+268/21*y[9]-919/42*y[10]+95/7*y[11]-164/7*y[12]+22/7*y[13]+61
/6*y[14]+37/7*y[15]+424/105*y[16]-368/21*y[17]+29/7*y[18]-103/7*y[19]+185/21*y
[20]+20*y[41]+28*y[52]+110*y[53]-62*y[54]-75/7*y[55]-3816/35*y[56]+27*y[57]-90
*y[58]+575/14*y[60]-1150/21*y[61]+115/14*y[62]+2300/63*y[63]-25/2*y[64]-1650/7
*y[65]+635/14*y[66]+3175/14*y[67]+10/7*y[68]+50/7*y[69]-75/7*y[72]+25/2*y[73]-\
15/2*y[74]+9*y[75]+50/3*y[76]+125/2*y[77]-145/3*y[78]-15*y[80]+30*y[81];
G34 := 21/5*y[2]+67/2*y[8]+316/21*y[9]-494/21*y[10]+165/14*y[11]-173/7*y[12]+4

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$$/7*y[13]+49/6*y[14]+85/7*y[15]+263/210*y[16]-107/21*y[17]+65/28*y[18]-55/7*y[19]+152/21*y[20]+10*y[41]+464/5*y[52]+20*y[53]-92*y[54]-300/7*y[55]-7452/35*y[56]+72*y[57]+36*y[58]+375/14*y[60]-925/21*y[61]+75/14*y[62]+3425/63*y[63]-25/2*y[64]-825/7*y[65]+335/14*y[66]+1675/14*y[67]+5/7*y[68]+25/7*y[69]+225/7*y[72]+25/2*y[73]-10*y[74]+18*y[75]-100/3*y[76]+125/2*y[77]-70/3*y[78]-25*y[79]-15*y[81];$$

$$G35 := 21*y[2]+59/4*y[8]-13/3*y[9]-205/12*y[10]+5*y[11]-17/2*y[12]-11/2*y[13]+13/3*y[14]-11/2*y[15]+103/30*y[16]+11/3*y[17]+1/4*y[18]+11/2*y[19]-8/3*y[20]+394/5*y[52]-35*y[53]-55*y[54]-60*y[55]-108*y[56]+99/2*y[57]+99*y[58]+25/4*y[60]-50/3*y[61]+5/4*y[62]+325/9*y[63]-25/4*y[64]+5/4*y[66]+25/4*y[67]+25/4*y[73]-25/4*y[74]+27/2*y[75]+25/3*y[76]-25/4*y[77]+215/6*y[78]-30*y[81];$$

$$G36 := 7/5*y[2]+17/12*y[8]-16/7*y[9]-289/84*y[10]-50/21*y[11]+9/7*y[12]-27/14*y[13]+1/12*y[14]-19/14*y[15]+37/105*y[16]+32/7*y[17]-113/84*y[18]+22/7*y[19]-44/21*y[20]-10/3*y[41]-18/5*y[52]+15/2*y[53]+3*y[54]-45/28*y[55]+324/7*y[56]-36*y[57]+3*y[58]+1025/84*y[60]-75/7*y[61]+205/84*y[62]-200/21*y[63]+25/4*y[64]+225/7*y[65]-205/28*y[66]-1025/28*y[67]+5/7*y[68]+25/7*y[69]-75/14*y[72]-25/4*y[73]+5/4*y[74]-3*y[75]+25/3*y[76]-25/4*y[77]+35/6*y[78]-15/2*y[81];$$

$$G37 := 3/5*y[3]-15/2*y[14]+48*y[15]+93/5*y[16]+6*y[17]-27*y[18]-90*y[19]+45*y[20]-5*y[42]+5*y[43]-46*y[44]+55*y[45]+27*y[46]+5*y[47]-25*y[48]+20*y[49]+60*y[50]+18*y[51];$$

$$G38 := -8/5*y[3]-2*y[14]+16*y[15]-28/5*y[16]-6*y[19]+2*y[20]-20*y[42]-20*y[46]+100/3*y[47]+40/3*y[49]+40*y[50]-15*y[51];$$

$$G39 := 2*y[3]-40*y[15]+34/3*y[16]-20/3*y[17]-5/3*y[18]+260/9*y[42]-20/3*y[43]-20/9*y[44]+100/9*y[45]+130/3*y[46]-200/3*y[47];$$

$$G40 := -1/16*y[4]-149/8*y[8]+95/24*y[9]+3/2*y[10]-65/16*y[11]-375/32*y[12]+105/8*y[13]+147/8*y[21]-783/32*y[22]+75/2*y[23]-25/4*y[24]-1/8*y[25]+175/12*y[26]-25/2*y[27]+1285/32*y[28]-5/4*y[59]-215/12*y[60]-50*y[61]+337/24*y[62]+665/12*y[63]-555/32*y[64]-215/8*y[66]+385/4*y[67]-385/8*y[68]-355/4*y[69]+675/32*y[70]+91/2*y[71]+1465/16*y[72]+55/8*y[73]+35/12*y[74]+50/3*y[76]+75/4*y[77]+7/3*y[78]-25/6*y[79]+15/4*y[80]-21/4*y[81]+105/8*y[82]-195/8*y[83]+303/8*y[84]+105/16*y[85];$$

$$G41 := -13/3*y[8]+22/9*y[9]-10/9*y[11]-9/2*y[12]+6*y[13]+16*y[21]-21*y[22]+20/3*y[23]+10*y[24]-y[25]+10/9*y[26]-5/3*y[27]+35/3*y[28]-160/9*y[60]-40/3*y[61]+76/9*y[62]+140/9*y[63]-35/6*y[64]+40*y[65]-76/3*y[66]+160/3*y[67]-82/3*y[68]-140/3*y[69]+35/2*y[70]+74/3*y[71]+125/3*y[72]+y[83]+2*y[84];$$

$$G42 := -1/48*y[4]-149/24*y[8]+37/24*y[9]+13/6*y[10]-35/144*y[11]-77/32*y[12]+35/8*y[13]+65/8*y[21]-165/32*y[22]-25/6*y[23]-25/12*y[24]+5/8*y[25]+25/12*y[26]-25/6*y[27]+375/32*y[28]-5/12*y[59]-415/36*y[60]-50/3*y[61]+545/72*y[62]+115/12*y[63]-475/96*y[64]-141/8*y[66]+195/4*y[67]-401/24*y[68]-35/12*y[69]+145/32*y[70]+33/2*y[71]+425/48*y[72]+55/24*y[73]+35/36*y[74]+50/9*y[76]+25/4*y[77]+7/9*y[78]-25/18*y[79]+5/4*y[80]-7/4*y[81]+35/8*y[82]-121/8*y[83]-11/8*y[84]+35/16*y[85];$$

$$G43 := 15/4*y[4]+15*y[8]-15/2*y[10]+135/4*y[22]-75*y[23]+75/2*y[24]-45/2*y[25]+25/2*y[26]+75/4*y[28]-75*y[72]+100*y[76]-75*y[77]+70*y[78]+50*y[79]-15*y[80]+315/2*y[83];$$

$$G44 := 65/48*y[4]+255/8*y[8]-55/8*y[9]-35/2*y[10]+595/144*y[11]-35/32*y[12]+5/8*y[13]+295/8*y[21]-1155/32*y[22]+125/6*y[23]+425/12*y[24]-415/24*y[25]-875/12*y[26]-25/2*y[27]-1375/32*y[28]+325/12*y[59]+1775/36*y[60]+50/3*y[61]-505/72*y[62]-275/12*y[63]+275/96*y[64]+85/8*y[66]+325/4*y[67]+985/24*y[68]-125/12*y[69]-425/32*y[70]+15/2*y[71]-25/48*y[72]-575/24*y[73]-775/36*y[74]+14*y[75]+350/9*y[76]-225/4*y[77]-35/9*y[78]+875/18*y[79]-45/4*y[80]+175/4*y[81]-175/8*y[82]+905/8*y[83]-185/8*y[84]-175/16*y[85];$$

$$G45 := 13/16*y[4]+81/8*y[8]-9/8*y[9]-3/2*y[10]+175/48*y[11]+3/32*y[12]-21/8*y[13]+105/8*y[21]-765/32*y[22]+5/2*y[23]+65/4*y[24]+45/8*y[25]-55/4*y[26]+5/2*y[27]-1185/32*y[28]+25/4*y[59]+155/12*y[60]+10*y[61]+35/24*y[62]-15/4*y[63]+95/32*y[64]+187/8*y[66]-5/4*y[67]+29/8*y[68]+95/4*y[69]-135/32*y[70]-11/2*y[71]-365/16*y[72]-75/8*y[73]+5/12*y[74]-10/3*y[76]-135/4*y[77]+49/3*y[78]+35/6*y[79]-27/4*y[80]+105/4*y[81]-105/8*y[82]+543/8*y[83]-111/8*y[84]-105/16*y[85];$$

$$G46 := 25/24*y[4]-19/12*y[8]-67/36*y[9]-38/3*y[10]-95/72*y[11]-259/16*y[12]+43/4*y[13]+215/4*y[21]-435/16*y[22]+50/3*y[23]+25/6*y[24]+125/12*y[25]-275/18*y[26]-50/3*y[27]+1075/48*y[28]+65/6*y[59]-95/6*y[60]-140/3*y[61]+205/12*y[62]+455/18*y[63]-685/48*y[64]-449/12*y[66]+835/6*y[67]-181/4*y[68]-175/2*y[69]+295/16*y[70]+178/3*y[71]+525/8*y[72]-55/12*y[73]-5/18*y[74]+380/9*y[76]-5/2*y[77]-14/9*y[78]+190/9*y[79]-5/2*y[80]-41/2*y[81]-65/4*y[82]+327/4*y[83]-51/4*y[84]-45/8*y[85];$$

$$G47 := 41/12*y[4]+145/3*y[8]-25/18*y[9]-280/3*y[10]-10*y[11]-395/8*y[12]+10*y[13]-5/2*y[21]-45/8*y[22]+325/6*y[24]+25*y[25]-275/9*y[26]+50/3*y[27]+325/24*y[28]+25/3*y[59]+475/9*y[60]-125/18*y[62]-325/9*y[63]+25/8*y[64]-125/6*y[66]+475$$

$$\begin{aligned} & /3*y[67]+5/6*y[68]-325/3*y[69]+75/8*y[70]+200/3*y[71]+175/12*y[72]+175/6*y[73] \\ & +95/9*y[74]+2600/9*y[76]-125*y[77]-140/9*y[78]+925/9*y[79]-25*y[80]+35*y[81]- \\ & 125*y[82]+733/2*y[83]-125*y[84]-20*y[85]; \\ G48 := & 5/3*y[4]+7/3*y[8]-17/9*y[9]-70/3*y[10]-35/12*y[11]-41/2*y[12]+29/2*y[13] \\ & +29*y[21]-81/4*y[22]+25*y[23]+65/3*y[24]+2*y[25]-55/18*y[26]+5/3*y[27]+365/12 \\ & *y[28]+10/3*y[59]-50/9*y[60]-40*y[61]+143/9*y[62]+80/9*y[63]-45/4*y[64]-85/3*y \\ & [66]+430/3*y[67]-95/3*y[68]-340/3*y[69]+75/4*y[70]+191/3*y[71]+205/3*y[72]+35/ \\ & 3*y[73]-70/9*y[74]+1040/9*y[76]-50*y[77]-56/9*y[78]+370/9*y[79]-10*y[80]+14*y[\\ & 81]-29*y[82]+253/2*y[83]-26*y[84]-6*y[85]; \\ G49 := & -17/8*y[4]+265/12*y[8]+805/36*y[9]-130/3*y[10]-2015/72*y[11]-75/16*y[12] \\ & +75/4*y[13]-705/4*y[21]+1365/16*y[22]+350/3*y[23]-25/2*y[24]-175/12*y[25]- \\ & 1375/18*y[26]-25/3*y[27]+3275/48*y[28]+75/2*y[59]+475/18*y[60]+100/3*y[61]- \\ & 1025/36*y[62]-1025/18*y[63]+275/48*y[64]-265/12*y[66]-325/6*y[67]+1265/12*y[68] \\ &]-325/6*y[69]-425/16*y[70]+20/3*y[71]+2575/24*y[72]+475/4*y[73]-145/2*y[74]+84 \\ & *y[75]+500/3*y[76]+75/2*y[77]-490/3*y[78]+15/2*y[80]-105/2*y[81]-45/4*y[82]+67 \\ & /4*y[83]-55/4*y[84]-305/8*y[85]; \\ G50 := & 25/6*y[4]+47/3*y[8]-199/9*y[9]-152/3*y[10]-65/18*y[11]-67/4*y[12]+y[13] \\ & +119*y[21]-471/4*y[22]+80/3*y[23]+140/3*y[24]+143/3*y[25]-610/9*y[26]+100/3*y[\\ & 27]-1385/12*y[28]-50/3*y[59]+130/3*y[60]-80/3*y[61]+53/3*y[62]+70/9*y[63]-85/ \\ & 12*y[64]+7/3*y[66]+710/3*y[67]-17*y[68]-70*y[69]+55/4*y[70]+268/3*y[71]+25/2*y \\ & [72]-55/3*y[73]-10/9*y[74]+1520/9*y[76]-130*y[77]-56/9*y[78]+760/9*y[79]-40*y[\\ & 80]+98*y[81]-35*y[82]+267*y[83]-33*y[84]-35/2*y[85]; \\ G51 := & -32065/1548*y[5]+1315/774*y[14]+19883/774*y[15]+40939/1161*y[16]+36097/ \\ & 1161*y[17]-174401/4644*y[18]-34333/516*y[19]+13496/387*y[20]-1967/129*y[21]+ \\ & 18565/1032*y[22]-2591/774*y[23]-474911/4644*y[24]+105847/2322*y[25]+144013/ \\ & 1548*y[26]+4803/172*y[27]+20005/3096*y[28]+278/43*y[29]-6817/2580*y[30]+7159/ \\ & 172*y[31]+11801/430*y[32]+2053/258*y[33]-401/215*y[34]-13519/129*y[35]-6875/86 \\ & *y[36]-59873/1290*y[37]-10292/387*y[42]+465/43*y[43]-9026/387*y[44]+30592/1161 \\ & *y[45]-6602/387*y[46]+1509/43*y[47]-34765/1161*y[48]-16765/387*y[49]+12095/387 \\ & *y[50]+347/12*y[51]+12664/387*y[59]-5663/2322*y[60]+239434/3483*y[61]-81067/ \\ & 4644*y[62]-262999/6966*y[63]+6535/688*y[64]-7282/387*y[65]-47807/1548*y[66]- \\ & 18053/774*y[67]+36895/1548*y[68]+7147/774*y[69]+41665/688*y[70]-34993/516*y[71] \\ &]-23282/129*y[72]-27847/774*y[73]-21415/1161*y[74]+15982/645*y[75]+18304/387*y \\ & [76]-96245/774*y[77]+104030/1161*y[78]+161705/4644*y[79]-16505/516*y[80]+13417 \\ & /387*y[81]; \\ G52 := & -4274/215*y[5]+2737/430*y[14]+105807/4300*y[15]+14163/430*y[16]+127587/ \\ & 4300*y[17]-74157/2150*y[18]-1055697/17200*y[19]+36052/1075*y[20]-15192/1075*y[\\ & 21]+30309/1720*y[22]-8567/2150*y[23]-1036157/12900*y[24]+501193/12900*y[25]+ \\ & 705637/8600*y[26]+209947/12900*y[27]+91019/3440*y[28]-91197/34400*y[29]+462621 \\ & /43000*y[30]+47511/2150*y[31]+390231/21500*y[32]-16503/8600*y[33]+26169/10750* \\ & y[34]-71829/1075*y[35]-29439/430*y[36]-789561/21500*y[37]-15994/1075*y[42]+ \\ & 9323/645*y[43]-21082/1075*y[44]+60014/3225*y[45]-26204/1075*y[46]+36657/1075*y \\ & [47]-9671/645*y[48]-28862/645*y[49]+5428/215*y[50]+1887/100*y[51]+35323/1075*y \\ & [59]+258653/12900*y[60]+58362/1075*y[61]-179077/6450*y[62]-271061/6450*y[63]+ \\ & 76941/3440*y[64]-25454/1075*y[65]-43856/1075*y[66]-65617/4300*y[67]+27657/860* \\ & y[68]+4359/2150*y[69]+240183/3440*y[70]-384243/4300*y[71]-1368741/8600*y[72]- \\ & 150903/4300*y[73]-20269/1290*y[74]+82557/5375*y[75]+58608/1075*y[76]-46829/430 \\ & *y[77]+41728/645*y[78]+11746/645*y[79]-26019/860*y[80]+42094/1075*y[81]; \\ G53 := & 143497/1720*y[5]-3937/430*y[14]-254031/2150*y[15]-63709/430*y[16]- \\ & 130623/1075*y[17]+1306223/8600*y[18]+1235913/4300*y[19]-164257/1075*y[20]+ \\ & 55647/1075*y[21]-262173/3440*y[22]+105619/4300*y[23]+9303499/25800*y[24]- \\ & 2254213/12900*y[25]-3327217/8600*y[26]-2281229/25800*y[27]-395129/3440*y[28]- \\ & 178299/17200*y[29]-363711/43000*y[30]-142488/1075*y[31]-2089971/21500*y[32]- \\ & 32919/1075*y[33]+33021/10750*y[34]+420114/1075*y[35]+261603/860*y[36]+3605601/ \\ & 21500*y[37]+69904/1075*y[42]-75181/1290*y[43]+102037/1075*y[44]-629023/6450*y[\\ & 45]+74939/1075*y[46]-139037/1075*y[47]+262919/2580*y[48]+489893/2580*y[49]- \\ & 71617/860*y[50]-11067/100*y[51]-996269/8600*y[59]-280373/12900*y[60]-293767/ \\ & 1075*y[61]+1308539/12900*y[62]+1091951/6450*y[63]-475647/6880*y[64]+63239/1075 \\ & *y[65]+799559/4300*y[66]+340897/4300*y[67]-119037/860*y[68]-12969/2150*y[69]- \\ & 2057211/6880*y[70]+1545213/4300*y[71]+5909331/8600*y[72]+1364571/8600*y[73]+ \\ & 210623/2580*y[74]-522687/5375*y[75]-201878/1075*y[76]+200609/430*y[77]-193153/ \\ & 645*y[78]-374363/5160*y[79]+417771/3440*y[80]-1314557/8600*y[81]; \\ G54 := & 899/43*y[5]-1077/172*y[14]-5983/215*y[15]-7508/215*y[16]-6308/215*y[17] \\ & +29939/860*y[18]+28089/430*y[19]-7842/215*y[20]-213/215*y[21]-1101/172*y[22]+ \\ & 616/215*y[23]+54368/645*y[24]-21382/645*y[25]-12939/215*y[26]+5657/645*y[27]- \\ & 974/43*y[28]-6867/1720*y[29]-2199/2150*y[30]-4518/215*y[31]-13059/1075*y[32]- \\ & 6753/430*y[33]+5598/1075*y[34]+18354/215*y[35]+3366/43*y[36]+45039/1075*y[37]+ \\ & 4604/215*y[42]-1646/129*y[43]+5787/215*y[44]-18554/645*y[45]+4124/215*y[46]- \\ & \end{aligned}$$

$7472/215*y[47]+2156/129*y[48]+5168/129*y[49]-1963/43*y[50]-201/10*y[51]-4098/215*y[59]-4082/645*y[60]-2112/215*y[61]+24967/1290*y[62]+4018/645*y[63]-6633/344*y[64]+2024/215*y[65]+10117/430*y[66]+2188/215*y[67]-900/43*y[68]-5922/215*y[69]-3123/86*y[70]+13047/215*y[71]+131703/860*y[72]-1683/215*y[73]+1751/129*y[74]-49029/2150*y[75]+1912/215*y[76]+4062/43*y[77]-8788/129*y[78]-10127/258*y[79]+4509/172*y[80]-9383/430*y[81];$
G55 := 179891/3483*y[5]-35311/3483*y[14]-3863203/69660*y[15]-9003041/104490*y[16]-17129779/208980*y[17]+18633503/208980*y[18]+13521361/92880*y[19]-1291718/17415*y[20]+37091/5805*y[21]-24043/1161*y[22]+573844/17415*y[23]+9897437/52245*y[24]-23854997/208980*y[25]-30233003/139320*y[26]-944153/34830*y[27]-4047061/55728*y[28]-1410943/61920*y[29]+4608827/232200*y[30]-197533/1935*y[31]-2244541/38700*y[32]-1682131/46440*y[33]+375901/19350*y[34]+1422847/5805*y[35]+67904/387*y[36]+11836693/116100*y[37]+980276/17415*y[42]-94148/3483*y[43]+1120808/17415*y[44]-3605026/52245*y[45]+455306/17415*y[46]-443506/5805*y[47]+698459/10449*y[48]+300154/3483*y[49]-245032/3483*y[50]-18583/270*y[51]-1040722/17415*y[59]-9548087/208980*y[60]-18040252/156735*y[61]+8020321/208980*y[62]+14108696/156735*y[63]-10947/344*y[64]-50864/17415*y[65]+1590911/69660*y[66]+3297823/69660*y[67]-718993/6966*y[68]-216098/17415*y[69]-237337/3096*y[70]+2778829/23220*y[71]+1773656/5805*y[72]+1390868/17415*y[73]+1205035/20898*y[74]-1712671/29025*y[75]-937252/17415*y[76]+938924/3483*y[77]-1578958/10449*y[78]-2602325/20898*y[79]+176843/2322*y[80]-2489686/17415*y[81];
G56 := 9637/7740*y[5]-3781/3870*y[14]-9037/19350*y[15]-131413/58050*y[16]-\ 18908/29025*y[17]+292073/232200*y[18]+21361/6450*y[19]-23344/9675*y[20]+3653/3225*y[21]-73/1290*y[22]-118721/19350*y[23]+291917/58050*y[24]-38194/29025*y[25]+278501/77400*y[26]+150877/38700*y[27]+10183/7740*y[28]-6311/8600*y[29]-\ 55421/32250*y[30]+10969/4300*y[31]+10211/10750*y[32]-16037/6450*y[33]+2004/5375*y[34]+8227/6450*y[35]+727/215*y[36]+110947/32250*y[37]+13708/9675*y[42]-\ 1364/1935*y[43]+6289/9675*y[44]-27758/29025*y[45]+11923/9675*y[46]-25744/9675*y[47]+7919/11610*y[48]+10519/3870*y[49]-33157/3870*y[50]+497/300*y[51]-22927/19350*y[59]-612571/116100*y[60]+617959/87075*y[61]+102259/58050*y[62]-23089/174150*y[63]-35539/10320*y[64]-79387/9675*y[65]+24922/9675*y[66]+348059/38700*y[67]-21493/7740*y[68]-111743/19350*y[69]+9403/3440*y[70]+19369/4300*y[71]+188309/25800*y[72]+75451/38700*y[73]-2471/2322*y[74]-2256/5375*y[75]+1226/1075*y[76]+861/430*y[77]-28289/5805*y[78]+727/2322*y[79]-1757/2580*y[80]+62549/19350*y[81];
G57 := 16931/135*y[5]-2161/135*y[14]-107137/675*y[15]-428338/2025*y[16]-367291/2025*y[17]+439937/2025*y[18]+354769/900*y[19]-139388/675*y[20]+12356/225*y[21]-3673/45*y[22]+22204/675*y[23]+1017842/2025*y[24]-526913/2025*y[25]-739487/1350*y[26]-70924/675*y[27]-95119/540*y[28]-12697/600*y[29]-967/2250*y[30]-\ 15028/75*y[31]-49039/375*y[32]-21949/450*y[33]+3758/375*y[34]+127852/225*y[35]+6644/15*y[36]+272947/1125*y[37]+69416/675*y[42]-10928/135*y[43]+95828/675*y[44]-295516/2025*y[45]+65096/675*y[46]-41996/225*y[47]+58544/405*y[48]+34504/135*y[49]-15412/135*y[50]-36752/225*y[51]-111802/675*y[59]-105923/2025*y[60]-\ 2204632/6075*y[61]+273034/2025*y[62]+1462736/6075*y[63]-1471/15*y[64]+37576/675*y[65]+150944/675*y[66]+68167/675*y[67]-28304/135*y[68]+232/675*y[69]-11383/30*y[70]+105016/225*y[71]+412717/450*y[72]+142913/675*y[73]+10255/81*y[74]-\ 155986/1125*y[75]-154432/675*y[76]+89774/135*y[77]-163408/405*y[78]-12713/81*y[79]+8194/45*y[80]-177826/675*y[81];
G58 := 36290/1161*y[5]-2935/1161*y[14]-56666/1161*y[15]-195374/3483*y[16]-\ 157088/3483*y[17]+205486/3483*y[18]+45143/387*y[19]-72964/1161*y[20]+13138/387*y[21]-16660/387*y[22]+15662/1161*y[23]+499051/3483*y[24]-227914/3483*y[25]-\ 179903/1161*y[26]-46637/1161*y[27]-59440/1161*y[28]+541/258*y[29]-17428/1935*y[30]-5279/129*y[31]-24152/645*y[32]-1366/387*y[33]-4556/645*y[34]+53906/387*y[35]+14420/129*y[36]+117296/1935*y[37]+17368/1161*y[42]-28640/1161*y[43]+37864/1161*y[44]-108848/3483*y[45]+31768/1161*y[46]-17128/387*y[47]+128960/3483*y[48]+95920/1161*y[49]-28480/1161*y[50]-382/9*y[51]-52586/1161*y[59]-7744/3483*y[60]-1239716/10449*y[61]+152417/3483*y[62]+745888/10449*y[63]-3865/129*y[64]+31988/1161*y[65]+98677/1161*y[66]+46676/1161*y[67]-60650/1161*y[68]-4144/1161*y[69]-17405/129*y[70]+61568/387*y[71]+110353/387*y[72]+73624/1161*y[73]+103925/3483*y[74]-70088/1935*y[75]-105176/1161*y[76]+213290/1161*y[77]-409540/3483*y[78]-31030/3483*y[79]+17275/387*y[80]-63548/1161*y[81];
G59 := -1417/86*y[5]+2659/1290*y[14]+16389/860*y[15]+535591/19350*y[16]+171023/7740*y[17]-35119/1290*y[18]-172837/3440*y[19]+17384/645*y[20]-6473/645*y[21]+2959/215*y[22]-763/645*y[23]-43993/645*y[24]+249433/7740*y[25]+353393/5160*y[26]+21482/1935*y[27]+45185/2064*y[28]+12801/6880*y[29]+30321/8600*y[30]+4806/215*y[31]+10971/860*y[32]+7871/1720*y[33]+469/2150*y[34]-14973/215*y[35]-12786/215*y[36]-135941/4300*y[37]-2828/215*y[42]+7024/645*y[43]-11618/645*y[44]+35738/1935*y[45]-3224/215*y[46]+9778/387*y[47]-6562/387*y[48]-68099/1935*y[49]

+2257/129*y[50]+96/5*y[51]+4873/215*y[59]+99493/7740*y[60]+236222/5805*y[61]-\
 32873/1548*y[62]-37511/1161*y[63]+9233/516*y[64]+7942/645*y[65]-26709/860*y[66
]-87533/2580*y[67]+19672/645*y[68]+593/645*y[69]+9493/215*y[70]-174161/2580*y[
 71]-101027/860*y[72]-2287/86*y[73]-61099/3870*y[74]+55769/3225*y[75]+58736/
 1935*y[76]-161303/1935*y[77]+100336/1935*y[78]+6323/430*y[79]-15383/645*y[80]+
 18961/645*y[81];

G60 := 19031/860*y[5]-9013/1720*y[14]-29838/1075*y[15]-16141/430*y[16]-37433/
 1075*y[17]+84477/2150*y[18]+145749/2150*y[19]-76619/2150*y[20]+9099/2150*y[21]
 -10317/860*y[22]+14281/1075*y[23]+1052927/12900*y[24]-157387/3225*y[25]-774007
 /8600*y[26]-76271/6450*y[27]-6374/215*y[28]-65727/8600*y[29]+33843/5375*y[30]-\
 44073/1075*y[31]-312183/10750*y[32]-33123/2150*y[33]+49158/5375*y[34]+213963/
 2150*y[35]+15687/215*y[36]+469923/10750*y[37]+23734/1075*y[42]-8033/645*y[43]+
 28177/1075*y[44]-90329/3225*y[45]+11369/1075*y[46]-35152/1075*y[47]+38047/1290
 *y[48]+26282/645*y[49]-8008/215*y[50]-2607/100*y[51]-27153/1075*y[59]-241883/
 12900*y[60]-172721/3225*y[61]+118447/6450*y[62]+121448/3225*y[63]-45981/3440*y
 [64]+27819/1075*y[65]+13541/1075*y[66]+82387/4300*y[67]-38837/860*y[68]-16262/
 1075*y[69]-147303/3440*y[70]+65262/1075*y[71]+1283601/8600*y[72]+81579/2150*y[
 73]+55373/2580*y[74]-134802/5375*y[75]-28938/1075*y[76]+50269/430*y[77]-46243/
 645*y[78]-30451/645*y[79]+24729/860*y[80]-115793/2150*y[81];

G61 := 26089/645*y[5]-1291/430*y[14]-94827/2150*y[15]-214519/3225*y[16]-\
 1152983/19350*y[17]+2638837/38700*y[18]+993297/8600*y[19]-62624/1075*y[20]+
 35567/3225*y[21]-18043/860*y[22]+18117/1075*y[23]+1542673/9675*y[24]-1662919/
 19350*y[25]-197538/1075*y[26]-629161/19350*y[27]-302747/5160*y[28]-185433/
 17200*y[29]+180029/21500*y[30]-162417/2150*y[31]-433371/10750*y[32]-59387/4300
 *y[33]+6931/5375*y[34]+210263/1075*y[35]+30843/215*y[36]+837461/10750*y[37]+
 127504/3225*y[42]-15062/645*y[43]+53044/1075*y[44]-498304/9675*y[45]+98974/
 3225*y[46]-584366/9675*y[47]+88211/1935*y[48]+142483/1935*y[49]-6951/215*y[50]
 -1491/25*y[51]-170663/3225*y[59]-201962/9675*y[60]-3408358/29025*y[61]+41994/
 1075*y[62]+2388434/29025*y[63]-73439/2580*y[64]+12694/3225*y[65]+164536/3225*y
 [66]+100648/3225*y[67]-15692/215*y[68]+5086/1075*y[69]-84377/860*y[70]+827299/
 6450*y[71]+1136871/4300*y[72]+382019/6450*y[73]+18586/387*y[74]-728627/16125*y
 [75]-572924/9675*y[76]+405928/1935*y[77]-219262/1935*y[78]-55337/774*y[79]+
 85991/1290*y[80]-111998/1075*y[81];

G62 := -80867/774*y[5]+10021/774*y[14]+278867/1935*y[15]+1037402/5805*y[16]+
 846506/5805*y[17]-1064632/5805*y[18]-451177/1290*y[19]+361963/1935*y[20]-12867
 /215*y[21]+11342/129*y[22]-51929/1935*y[23]-4997309/11610*y[24]+1254418/5805*y
 [25]+890651/1935*y[26]+395783/3870*y[27]+217589/1548*y[28]+10427/1720*y[29]+
 62911/3225*y[30]+32093/215*y[31]+120464/1075*y[32]+41009/1290*y[33]-1588/1075*
 y[34]-293972/645*y[35]-15841/43*y[36]-645872/3225*y[37]-137176/1935*y[42]+
 28474/387*y[43]-213373/1935*y[44]+644096/5805*y[45]-164596/1935*y[46]+298658/
 1935*y[47]-140794/1161*y[48]-30269/129*y[49]+35402/387*y[50]+1924/15*y[51]+
 279827/1935*y[59]+203728/5805*y[60]+5756672/17415*y[61]-766889/5805*y[62]-\
 3710326/17415*y[63]+48737/516*y[64]-144056/1935*y[65]-434914/1935*y[66]-193232
 /1935*y[67]+139007/774*y[68]+9178/1935*y[69]+126315/344*y[70]-301786/645*y[71]
 -2198629/2580*y[72]-793541/3870*y[73]-223595/2322*y[74]+736037/6450*y[75]+
 463672/1935*y[76]-219125/387*y[77]+421604/1161*y[78]+88946/1161*y[79]-24437/
 172*y[80]+728137/3870*y[81];

G63 := -2812/129*y[5]+2507/516*y[14]+25409/645*y[15]+15418/387*y[16]+66332/
 1935*y[17]-326821/7740*y[18]-36199/430*y[19]+29731/645*y[20]-2957/215*y[21]+
 1193/43*y[22]-10583/645*y[23]-348293/3870*y[24]+96886/1935*y[25]+65807/645*y[
 26]+31931/1290*y[27]+8749/258*y[28]-2139/860*y[29]+11767/1075*y[30]+11451/430*
 y[31]+36744/1075*y[32]+2704/215*y[33]-7098/1075*y[34]-19514/215*y[35]-3036/43*
 y[36]-43469/1075*y[37]-5932/645*y[42]+754/43*y[43]-14116/645*y[44]+40922/1935*
 y[45]-7972/645*y[46]+19156/645*y[47]-12208/387*y[48]-2323/43*y[49]+1859/129*y[
 50]+133/5*y[51]+18209/645*y[59]+14536/1935*y[60]+427304/5805*y[61]-56063/1935*
 y[62]-259897/5805*y[63]+3649/172*y[64]-20552/645*y[65]-28333/645*y[66]-21704/
 645*y[67]+5635/129*y[68]+13381/645*y[69]+3480/43*y[70]-48969/430*y[71]-95819/
 430*y[72]-67217/1290*y[73]-12701/774*y[74]+28422/1075*y[75]+13688/215*y[76]-\
 5834/43*y[77]+36740/387*y[78]+4694/387*y[79]-1018/43*y[80]+23432/645*y[81];

G64 := 1519/86*y[5]-371/258*y[14]-33649/1290*y[15]-58952/1935*y[16]-50246/1935
 *y[17]+126629/3870*y[18]+13246/215*y[19]-21158/645*y[20]+3071/215*y[21]-9111/
 344*y[22]+6831/430*y[23]+195151/2580*y[24]-140731/3870*y[25]-251419/2580*y[26]
 -241003/7740*y[27]-13129/516*y[28]-20277/3440*y[29]+1134/1075*y[30]-8154/215*y
 [31]-31617/1075*y[32]-4293/860*y[33]+3684/1075*y[34]+16707/215*y[35]+4473/86*y
 [36]+36282/1075*y[37]+2822/215*y[42]-4667/387*y[43]+12328/645*y[44]-37246/1935
 *y[45]+3232/215*y[46]-19553/645*y[47]+2978/129*y[48]+15782/387*y[49]-854/43*y[
 50]-471/20*y[51]-26029/1290*y[59]-1537/1290*y[60]-437192/5805*y[61]+171781/
 7740*y[62]+442667/11610*y[63]-6863/688*y[64]+24376/645*y[65]+29327/860*y[66]+

$4683/430*y[67]-16747/516*y[68]-1631/1290*y[69]-47997/688*y[70]+33477/430*y[71]$
 $+269373/1720*y[72]+106207/2580*y[73]+2171/129*y[74]-22336/1075*y[75]-45212/645$
 $*y[76]+28471/258*y[77]-3058/43*y[78]-3251/258*y[79]+1126/43*y[80]-13669/430*y[$
 $81];$
 $G65 := 14161/1935*y[5]-3578/1935*y[14]-119132/9675*y[15]-407066/29025*y[16]-\$
 $368066/29025*y[17]+429697/29025*y[18]+178897/6450*y[19]-147778/9675*y[20]+$
 $33251/3225*y[21]-14303/2580*y[22]-37846/9675*y[23]+923842/29025*y[24]-417943/$
 $29025*y[25]-803827/19350*y[26]-125029/9675*y[27]-51877/3870*y[28]+45133/8600*y$
 $[29]-153571/16125*y[30]-10891/2150*y[31]-36524/5375*y[32]+33571/6450*y[33]-\$
 $19592/5375*y[34]+75122/3225*y[35]+6001/215*y[36]+191372/16125*y[37]+19576/9675$
 $*y[42]-4754/645*y[43]+78538/9675*y[44]-201446/29025*y[45]+106396/9675*y[46]-\$
 $103708/9675*y[47]+12019/5805*y[48]+12959/645*y[49]-977/1935*y[50]-604/75*y[51]$
 $-302629/19350*y[59]-11728/29025*y[60]-2986472/87075*y[61]+449894/29025*y[62]+$
 $1714576/87075*y[63]-52139/5160*y[64]+78056/9675*y[65]+318394/9675*y[66]+49532/$
 $9675*y[67]-16501/1935*y[68]+94472/9675*y[69]-16151/344*y[70]+106239/2150*y[71]$
 $+944029/12900*y[72]+156283/9675*y[73]+47557/5805*y[74]-30797/5375*y[75]-90524/$
 $3225*y[76]+5657/129*y[77]-126794/5805*y[78]+16744/5805*y[79]+7535/516*y[80]-\$
 $255367/19350*y[81];$
 $G66 := 96479/1161*y[5]-8392/1161*y[14]-699178/5805*y[15]-2549272/17415*y[16]-\$
 $2021314/17415*y[17]+5235481/34830*y[18]+1132853/3870*y[19]-908642/5805*y[20]+$
 $122459/1935*y[21]-140029/1548*y[22]+138226/5805*y[23]+6273623/17415*y[24]-\$
 $2932367/17415*y[25]-2301304/5805*y[26]-622141/5805*y[27]-273533/2322*y[28]-\$
 $3673/5160*y[29]-190934/9675*y[30]-155999/1290*y[31]-316756/3225*y[32]-83071/$
 $3870*y[33]-17608/3225*y[34]+742348/1935*y[35]+39077/129*y[36]+1578958/9675*y[$
 $37]+317984/5805*y[42]-73070/1161*y[43]+510932/5805*y[44]-1513894/17415*y[45]+$
 $476384/5805*y[46]-261164/1935*y[47]+332861/3483*y[48]+230761/1161*y[49]-78523/$
 $1161*y[50]-4706/45*y[51]-1368581/11610*y[59]-80927/17415*y[60]-15910888/52245*$
 $y[61]+1944391/17415*y[62]+9248894/52245*y[63]-75377/1032*y[64]+471064/5805*y[$
 $65]+1302941/5805*y[66]+401593/5805*y[67]-153554/1161*y[68]+57358/5805*y[69]-\$
 $366313/1032*y[70]+1552253/3870*y[71]+5578061/7740*y[72]+1014587/5805*y[73]+$
 $270818/3483*y[74]-928864/9675*y[75]-1325668/5805*y[76]+553217/1161*y[77]-\$
 $1073590/3483*y[78]-116641/3483*y[79]+184141/1548*y[80]-1572593/11610*y[81];$
 $G67 := 4175/774*y[5]+1355/774*y[14]-5735/774*y[15]-4576/1161*y[16]-3130/1161*y$
 $[17]+5300/1161*y[18]+1555/129*y[19]-2630/387*y[20]+880/129*y[21]-9265/1032*y[$
 $22]+2345/774*y[23]+39545/4644*y[24]+4715/2322*y[25]-10915/1548*y[26]+8915/1548$
 $*y[27]-28625/1548*y[28]-845/688*y[29]+805/258*y[30]-10/43*y[31]+238/43*y[32]-\$
 $3695/516*y[33]-52/43*y[34]+3370/129*y[35]+1475/86*y[36]+896/129*y[37]-1630/387$
 $*y[42]-2105/387*y[43]-325/387*y[44]+4100/1161*y[45]+2030/387*y[46]-2495/387*y[$
 $47]+1975/1161*y[48]+3410/387*y[49]+3325/387*y[50]+25/12*y[51]-820/387*y[59]+$
 $10715/2322*y[60]-28870/3483*y[61]+29785/4644*y[62]+10945/6966*y[63]-12925/2064$
 $*y[64]-770/387*y[65]+35765/1548*y[66]+2495/774*y[67]-13465/1548*y[68]-1645/774$
 $*y[69]-19295/688*y[70]+2915/86*y[71]+29335/1032*y[72]+7235/1548*y[73]+13385/$
 $2322*y[74]-823/86*y[75]+200/129*y[76]+1025/86*y[77]-11000/1161*y[78]+22000/$
 $1161*y[79]-290/129*y[80]+2095/774*y[81];$
 $G68 := 213877/1935*y[5]-122273/7740*y[14]-5440691/38700*y[15]-10965367/58050*y$
 $[16]-19003913/116100*y[17]+11298233/58050*y[18]+18091667/51600*y[19]-1781596/$
 $9675*y[20]+162677/3225*y[21]-400753/5160*y[22]+627061/19350*y[23]+53062381/$
 $116100*y[24]-27441709/116100*y[25]-37694491/77400*y[26]-3720707/38700*y[27]-\$
 $4719767/30960*y[28]-515171/34400*y[29]-655631/129000*y[30]-187226/1075*y[31]-\$
 $2510027/21500*y[32]-912707/25800*y[33]+42147/10750*y[34]+1596734/3225*y[35]+$
 $169151/430*y[36]+13892771/64500*y[37]+898822/9675*y[42]-138551/1935*y[43]+$
 $1213201/9675*y[44]-3747272/29025*y[45]+871132/9675*y[46]-1620421/9675*y[47]+$
 $732448/5805*y[48]+446243/1935*y[49]-207854/1935*y[50]-43477/300*y[51]-1448009/$
 $9675*y[59]-6328639/116100*y[60]-29424494/87075*y[61]+3647078/29025*y[62]+$
 $39211649/174150*y[63]-940111/10320*y[64]+449042/9675*y[65]+3809471/19350*y[66]$
 $+3684731/38700*y[67]-1487527/7740*y[68]+14263/19350*y[69]-1173113/3440*y[70]+$
 $1824371/4300*y[71]+21332381/25800*y[72]+7439959/38700*y[73]+259327/2322*y[74]-\$
 $1272683/10750*y[75]-661948/3225*y[76]+258899/430*y[77]-2078726/5805*y[78]-\$
 $165886/1161*y[79]+213311/1290*y[80]-4715359/19350*y[81];$
 $G69 := -6413/516*y[5]+1741/344*y[14]+2901/430*y[15]+81319/3870*y[16]+39752/$
 $1935*y[17]-158491/7740*y[18]-23583/860*y[19]+3137/215*y[20]-1139/430*y[21]-\$
 $1963/344*y[22]+2569/1290*y[23]-102119/1935*y[24]+34709/1290*y[25]+64547/1720*y$
 $[26]-47479/7740*y[27]+853/86*y[28]+3669/3440*y[29]+6197/1075*y[30]+3918/215*y[$
 $31]+4443/2150*y[32]-4279/860*y[33]-558/1075*y[34]-13493/430*y[35]-4125/86*y[36$
 $]-56003/2150*y[37]-4004/215*y[42]+2038/387*y[43]-3582/215*y[44]+11989/645*y[45$
 $]-12407/645*y[46]+16591/645*y[47]-4231/774*y[48]-8167/387*y[49]+3064/129*y[50]$
 $+83/5*y[51]+16534/645*y[59]+238289/7740*y[60]+19919/5805*y[61]-12543/860*y[62]$
 $-125587/5805*y[63]+5723/344*y[64]+3091/215*y[65]-28457/2580*y[66]-35461/2580*y$

[67]+2479/129*y[68]+2821/645*y[69]+345/43*y[70]-12659/430*y[71]-29149/430*y[72]-8179/2580*y[73]-20615/1548*y[74]+8242/1075*y[75]-922/215*y[76]-2126/43*y[77]+7777/387*y[78]+29135/774*y[79]-1223/43*y[80]+49409/1290*y[81];

G70 := -2539/774*y[5]+919/387*y[14]-27371/1935*y[15]+21502/5805*y[16]+36592/5805*y[17]-24823/11610*y[18]+8303/645*y[19]-15484/1935*y[20]+1216/215*y[21]-\ 11777/516*y[22]+41477/1935*y[23]-332683/11610*y[24]+89276/5805*y[25]-26701/3870*y[26]-19793/1290*y[27]-26387/1548*y[28]+1157/860*y[29]+9739/6450*y[30]+5597/430*y[31]-11747/1075*y[32]-11026/645*y[33]+2714/1075*y[34]+8861/645*y[35]-659/43*y[36]-21649/3225*y[37]-29852/1935*y[42]-1850/387*y[43]-11636/1935*y[44]+59152/5805*y[45]-29972/1935*y[46]+19546/1935*y[47]+7462/1161*y[48]+1606/387*y[49]+2014/387*y[50]+331/30*y[51]+35074/1935*y[59]+180461/5805*y[60]-554636/17415*y[61]-13721/11610*y[62]-216437/17415*y[63]+12143/1032*y[64]+54428/1935*y[65]+78779/3870*y[66]-16309/1935*y[67]+5785/774*y[68]-4039/1935*y[69]-12645/344*y[70]+21761/1290*y[71]+5563/645*y[72]+24229/1935*y[73]-9506/1161*y[74]-\ 12508/3225*y[75]-55336/1935*y[76]+1295/387*y[77]-15656/1161*y[78]+105839/2322*y[79]-2211/86*y[80]+44692/1935*y[81];

G71 := -10267/258*y[5]+2131/516*y[14]+34042/645*y[15]+143266/1935*y[16]+119416/1935*y[17]-596333/7740*y[18]-60197/430*y[19]+48008/645*y[20]-6071/215*y[21]+2933/86*y[22]-5629/645*y[23]-730309/3870*y[24]+175658/1935*y[25]+251927/1290*y[26]+63233/1290*y[27]+23059/516*y[28]+20631/1720*y[29]+5227/2150*y[30]+37563/430*y[31]+54687/1075*y[32]+4609/430*y[33]-14394/1075*y[34]-36952/215*y[35]-\ 5982/43*y[36]-90157/1075*y[37]-21536/645*y[42]+3230/129*y[43]-29798/645*y[44]+96916/1935*y[45]-26096/645*y[46]+15526/215*y[47]-20669/387*y[48]-11728/129*y[49]+6442/129*y[50]+583/10*y[51]+67349/1290*y[59]+24173/1935*y[60]+818572/5805*y[61]-206423/3870*y[62]-525671/5805*y[63]+3021/86*y[64]-22396/645*y[65]-121963/1290*y[66]-25267/645*y[67]+19063/258*y[68]-1477/645*y[69]+25629/172*y[70]-\ 78017/430*y[71]-312629/860*y[72]-102841/1290*y[73]-30715/774*y[74]+52306/1075*y[75]+69592/645*y[76]-30641/129*y[77]+61252/387*y[78]+39179/774*y[79]-12145/172*y[80]+100427/1290*y[81];

G72 := -5750/129*y[5]+775/86*y[14]+8165/129*y[15]+31540/387*y[16]+24220/387*y[17]-62605/774*y[18]-6795/43*y[19]+3770/43*y[20]-1170/43*y[21]+8325/172*y[22]-\ 2855/129*y[23]-149255/774*y[24]+13745/129*y[25]+18755/86*y[26]+54005/774*y[27]+2350/43*y[28]-1155/344*y[29]+824/43*y[30]+2400/43*y[31]+2478/43*y[32]+1385/86*y[33]-76/43*y[34]-8590/43*y[35]-7365/43*y[36]-3998/43*y[37]-1540/43*y[42]+12850/387*y[43]-2370/43*y[44]+7340/129*y[45]-5020/129*y[46]+9110/129*y[47]-\ 22550/387*y[48]-42250/387*y[49]+4900/129*y[50]+135/2*y[51]+8840/129*y[59]-965/387*y[60]+184540/1161*y[61]-14935/258*y[62]-107345/1161*y[63]+12825/344*y[64]-\ 1540/43*y[65]-30305/258*y[66]-7565/129*y[67]+12065/258*y[68]+1085/129*y[69]+61125/344*y[70]-8595/43*y[71]-69805/172*y[72]-21295/258*y[73]-9080/387*y[74]+1709/43*y[75]+15640/129*y[76]-32525/129*y[77]+67300/387*y[78]+10525/387*y[79]-\ 2600/43*y[80]+8435/129*y[81];

G73 := -8153/344*y[5]+1369/172*y[14]+14019/430*y[15]+9154/215*y[16]+8237/215*y[17]-18933/430*y[18]-67827/860*y[19]+18421/430*y[20]-2358/215*y[21]+11805/688*y[22]-9221/860*y[23]-488591/5160*y[24]+108077/2580*y[25]+86959/860*y[26]+70891/5160*y[27]+25651/688*y[28]+2979/860*y[29]+53709/8600*y[30]+27693/860*y[31]+101619/4300*y[32]+9489/860*y[33]-9189/2150*y[34]-42447/430*y[35]-15183/172*y[36]-216339/4300*y[37]-4526/215*y[42]+4517/258*y[43]-6083/215*y[44]+36317/1290*y[45]-4486/215*y[46]+8248/215*y[47]-11311/516*y[48]-26677/516*y[49]+7133/172*y[50]+453/20*y[51]+60911/1720*y[59]+17651/1290*y[60]+30929/645*y[61]-15379/645*y[62]-6994/215*y[63]+27753/1376*y[64]-4741/215*y[65]-20813/430*y[66]-6829/430*y[67]+4299/172*y[68]+1848/215*y[69]+108009/1376*y[70]-36381/430*y[71]-325509/1720*y[72]-52929/1720*y[73]-11047/516*y[74]+53181/2150*y[75]+9272/215*y[76]-\ 10825/86*y[77]+9662/129*y[78]+29233/1032*y[79]-23433/688*y[80]+73963/1720*y[81];

G74 := -9137/258*y[5]+1557/172*y[14]+68059/1290*y[15]+131128/1935*y[16]+104716/1935*y[17]-524723/7740*y[18]-27951/215*y[19]+15466/215*y[20]-3836/215*y[21]+10855/344*y[22]-15643/1290*y[23]-1203703/7740*y[24]+88937/1290*y[25]+133013/860*y[26]+240493/7740*y[27]+3649/86*y[28]+17427/3440*y[29]+17657/2150*y[30]+10914/215*y[31]+49542/1075*y[32]+15283/860*y[33]-6744/1075*y[34]-33917/215*y[35]-11589/86*y[36]-83372/1075*y[37]-21046/645*y[42]+10697/387*y[43]-28223/645*y[44]+29012/645*y[45]-21016/645*y[46]+39253/645*y[47]-15604/387*y[48]-33476/387*y[49]+9107/129*y[50]+721/20*y[51]+32662/645*y[59]+81791/3870*y[60]+542902/5805*y[61]-113677/2580*y[62]-698827/11610*y[63]+22803/688*y[64]-8162/215*y[65]-219151/2580*y[66]-43639/1290*y[67]+27143/516*y[68]+26551/1290*y[69]+89595/688*y[70]-32116/215*y[71]-537833/1720*y[72]-165527/2580*y[73]-11749/387*y[74]+90577/2150*y[75]+16164/215*y[76]-51581/258*y[77]+47516/387*y[78]+12554/387*y[79]-2197/43*y[80]+84337/1290*y[81];

G75 := -3716/43*y[5]+12219/688*y[14]+103393/860*y[15]+6848/43*y[16]+27772/215*


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y[17]-557469/3440*y[18]-524979/1720*y[19]+143547/860*y[20]-51177/860*y[21]+
3873/43*y[22]-30751/860*y[23]-1982971/5160*y[24]+113578/645*y[25]+669783/1720*
y[26]+439421/5160*y[27]+9337/86*y[28]+4707/430*y[29]+23658/1075*y[30]+238671/
1720*y[31]+220707/2150*y[32]+7026/215*y[33]-20862/1075*y[34]-158217/430*y[35]-\
27369/86*y[36]-195096/1075*y[37]-15101/215*y[42]+16447/258*y[43]-21108/215*y[
44]+129757/1290*y[45]-16616/215*y[46]+31478/215*y[47]-13604/129*y[48]-105851/
516*y[49]+22243/172*y[50]+492/5*y[51]+26322/215*y[59]+114047/2580*y[60]+160774
/645*y[61]-69524/645*y[62]-422563/2580*y[63]+6873/86*y[64]-18326/215*y[65]-\
42629/215*y[66]-68503/860*y[67]+23919/172*y[68]+19437/860*y[69]+217683/688*y[
70]-651189/1720*y[71]-1319079/1720*y[72]-313299/1720*y[73]-75037/1032*y[74]+
217131/2150*y[75]+44122/215*y[76]-42519/86*y[77]+42025/129*y[78]+43447/516*y[
79]-43011/344*y[80]+125479/860*y[81];
G76 := 150/43*y[5]-285/86*y[14]+45/43*y[15]-988/645*y[16]-830/129*y[17]+575/
258*y[18]-333/86*y[19]+120/43*y[20]-402/43*y[21]+459/172*y[22]+153/43*y[23]+
651/86*y[24]-971/129*y[25]-189/86*y[26]+3037/258*y[27]-455/43*y[28]+999/344*y[
29]-189/43*y[30]+216/43*y[31]+432/43*y[32]+531/86*y[33]-1608/215*y[34]+246/43*
y[35]+711/43*y[36]+768/215*y[37]+300/43*y[42]+278/129*y[43]+178/43*y[44]-724/
129*y[45]+288/43*y[46]-118/43*y[47]-290/43*y[48]-386/129*y[49]-240/43*y[50]-9/
2*y[51]-1085/43*y[59]-201/43*y[60]+316/387*y[61]+77/258*y[62]-191/387*y[63]+
735/344*y[64]-44/43*y[65]-219/86*y[66]-285/43*y[67]+1151/86*y[68]-133/43*y[69]
+3663/344*y[70]-522/43*y[71]-3051/172*y[72]+47/86*y[73]-22/43*y[74]+1227/215*y
[75]+624/43*y[76]-707/43*y[77]+28/43*y[78]-271/43*y[79]+435/86*y[80]+324/43*y[
81];
G77 := 2*y[6]+5/4*y[29]+2*y[30]-17/2*y[31]+10*y[32]+7/6*y[33]+26/3*y[34]-5*y[
35]+8*y[36]-16/3*y[37]+12*y[52]+5*y[53]-24*y[54]+21*y[55]-24*y[56]+y[57]-20*y[
58];
G78 := -15*y[29]+8*y[32]-10*y[33]-4*y[34]-20*y[36]+14*y[37]-25*y[55]+128*y[56]
-60*y[57];
G79 := -15*y[6]-45/2*y[29]-18*y[30]-6*y[32]-15*y[33]-6*y[34]-30*y[36]+39*y[37]
-60*y[55]+264*y[56]-90*y[57];
G80 := -6*y[6]-165/4*y[29]-8*y[30]+1/2*y[31]+26*y[32]-311/6*y[33]+14/3*y[34]+
65*y[35]+36*y[36]+212/3*y[37]+4*y[52]-65*y[53]-8*y[54]-143*y[55]+184*y[56]-53*
y[57]+100*y[58];
G81 := -3*y[6]-15/2*y[29]-2*y[30]+14*y[31]+8*y[32]-34/3*y[33]-40/3*y[34]+20*y[
35]-12*y[36]+32/3*y[37]+4*y[52]-20*y[53]+16*y[54]-14*y[55]+88*y[56]-44*y[57]+
40*y[58];
G82 := 8/11*y[21]+78/11*y[22]-120/11*y[23]+30/11*y[24]+346/33*y[25]+80/33*y[27]
+10/11*y[28]+285/11*y[38]+126/11*y[39]+20/11*y[40]+144/11*y[82]+180/11*y[83]+
144/11*y[84]-54/11*y[85];
G83 := -105/11*y[21]-315/22*y[22]+255/11*y[23]-45/22*y[24]-301/11*y[25]-205/22
*y[27]-15/22*y[28]-585/11*y[38]-342/11*y[39]-510/11*y[40]-2256/55*y[82]-972/55
*y[83]-2256/55*y[84]+461/55*y[85];
G84 := -6/11*y[21]-9/11*y[22]-42/11*y[23]+82/11*y[24]+18/11*y[25]+6*y[26]+68/
11*y[27]+9/11*y[28]+108/11*y[38]+54/11*y[39]-48/11*y[40]+186/55*y[82]-378/55*y
[83]+186/55*y[84]-56/55*y[85];
G85 := 13/2*y[30]-3/2*y[32]-5/2*y[34]+25/4*y[35]-11/4*y[37]-75/4*y[38]+50*y[40]
+5/3*y[59]-20/3*y[60]+10/3*y[62]+10/3*y[63]+10*y[66]-20*y[67]-5*y[68]+10*y[69]
+10*y[73]+5*y[75]-10/3*y[77]-10*y[79];
G86 := -9*y[29]+10*y[30]+6*y[31]+18*y[32]-4*y[33]-10*y[34]+15*y[35]+12*y[36]+9
*y[37]-45*y[38]-20*y[39]+20*y[40]-8/3*y[59]+32/3*y[60]-16/3*y[62]-16/3*y[63]-\
16*y[66]+32*y[67]+8*y[68]-16*y[69]-12*y[71]+30*y[72]+4*y[73]+4*y[75]+16/3*y[77]
-4*y[79]-2*y[80]-4*y[81];
G87 := 6*y[29]+9*y[33]-15*y[35]-6*y[36]-12*y[37]-15*y[38]+40*y[40]+4*y[59]-16*
y[60]+8*y[62]+8*y[63]+24*y[66]-48*y[67]-12*y[68]+24*y[69]+24*y[73]+24/5*y[75]-\
8*y[77]-24*y[79]+6*y[80]+12*y[81];
G88 := 3*y[29]+3/2*y[30]-9/2*y[32]+9/2*y[33]-3/2*y[34]-15/4*y[35]-3*y[36]-21/4
*y[37]-15/4*y[38]-3*y[39]-5*y[40]-3*y[59]-8*y[60]+2*y[62]+4*y[63]+6*y[66]-24*y
[67]-3*y[68]+12*y[69]+12*y[73]+9/5*y[75]+6*y[77]-8*y[78]-12*y[79]+3*y[80]+6*y[
81];
G89 := -12*y[8]-24*y[9]-12*y[10]-16/3*y[41]+8*y[42]+48*y[46]-40*y[47]-70/3*y[
48]-50/3*y[49]-30*y[50]+9*y[51]+10*y[86]+40*y[87]+4*y[88]-92*y[89]-6*y[92]-30*
y[93]+120*y[94];
G90 := 7/2*y[8]+2*y[9]-5/2*y[10]+4*y[41]+y[42]-23/3*y[43]+9/2*y[44]+5/3*y[45]-\
3*y[46]-25/3*y[47]-5/2*y[48]+10*y[49]-25/2*y[50]+9*y[51]+35/2*y[86]+15*y[87]-3
*y[88]-11*y[89]-15*y[91]+15/4*y[92]-135/4*y[93]+75/2*y[94];
G91 := 6*y[8]+10*y[9]-y[11]+32/3*y[41]-32/3*y[43]+21/2*y[44]-10/3*y[45]-21*y[
46]+20/3*y[47]-5/6*y[48]+55/3*y[49]-25/2*y[50]+9*y[51]+55/2*y[86]+25*y[87]-14*
y[88]+17*y[89]-30*y[91]+15/4*y[92]-135/4*y[93]-15/2*y[94];

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G92 := $-4*y[8]-3*y[9]-y[10]+9/4*y[12]+38/3*y[41]-2*y[42]-23/3*y[43]+3*y[44]+5/6*y[45]+3/2*y[46]-15/2*y[47]-5/6*y[48]+40/3*y[49]-35/2*y[50]+9*y[51]-5*y[86]+12*y[88]-26*y[89]-15*y[90]+45/2*y[91]-33/4*y[92]-165/4*y[93]+15/4*y[94]$;
G93 := $-11/2*y[8]+y[9]-1/2*y[10]-3*y[12]+6*y[13]+70/3*y[41]-16*y[42]-13*y[43]+23/4*y[44]+5/3*y[45]+6*y[46]-10*y[47]-85/12*y[48]+155/6*y[49]-125/4*y[50]+21/2*y[51]-105/4*y[86]+15/2*y[87]+36*y[88]-171/2*y[89]-25*y[90]+30*y[91]-77/8*y[92]-475/8*y[93]+15/4*y[94]$;
G94 := $-13/2*y[8]+18*y[9]+23/2*y[10]-27/4*y[12]+9*y[13]+100/3*y[41]-31*y[42]-25/3*y[43]+33/4*y[44]-35/6*y[45]-39/2*y[46]+55/2*y[47]+55/12*y[48]+235/6*y[49]-5/4*y[50]-27/2*y[51]-235/4*y[86]-105/2*y[87]+48*y[88]-53/2*y[89]+30*y[90]+45/2*y[91]-117/8*y[92]+225/8*y[93]-105*y[94]$;
G95 := $-4/3*y[14]-16*y[15]+16/5*y[16]+8*y[19]-16/3*y[20]+32/9*y[43]+2/3*y[44]-32/9*y[45]+16/3*y[46]+80/9*y[47]-58/9*y[48]+32/9*y[49]+18*y[50]-16*y[51]+56/5*y[52]-4*y[53]-32*y[54]-18*y[55]-192/5*y[56]+118/3*y[86]+54*y[87]-30*y[88]-32/3*y[89]$;
G96 := $-115/24*y[14]-20/3*y[15]-13/3*y[16]-5/6*y[17]+5*y[19]-10/3*y[20]+65/9*y[42]-65/9*y[43]+155/72*y[44]+25/9*y[45]+10/3*y[46]-25/6*y[48]+575/24*y[49]-25/4*y[50]-5/16*y[51]+51/2*y[52]-50*y[54]+24*y[56]+45/4*y[57]-55*y[58]+425/48*y[86]+725/24*y[87]-25/4*y[88]-75/8*y[89]$;
G97 := $25/16*y[14]+21/5*y[16]+3/4*y[17]-3/2*y[19]+y[20]-7/2*y[42]+47/6*y[43]-27/16*y[44]-23/6*y[45]-y[46]+1/3*y[47]+37/12*y[48]-839/48*y[49]+81/8*y[50]-219/32*y[51]-75/4*y[52]-3/2*y[53]+33*y[54]-234/5*y[56]-81/8*y[57]+99/2*y[58]+85/32*y[86]-159/16*y[87]-39/8*y[88]+179/16*y[89]$;
G98 := $-25/4*y[14]-44/3*y[15]-4/3*y[16]-1/3*y[17]+10*y[19]-20/3*y[20]+62/9*y[42]-4/3*y[43]+163/36*y[44]-40/9*y[45]+2/3*y[46]+80/9*y[47]-25/9*y[48]+605/36*y[49]+15/2*y[50]-121/8*y[51]+71/5*y[52]+5*y[53]-52*y[54]+72/5*y[56]-9/2*y[57]-58*y[58]+315/8*y[86]+685/12*y[87]-65/2*y[88]+55/12*y[89]$;
G99 := $17/24*y[14]+4*y[15]-2/5*y[16]+1/2*y[17]-2*y[19]+4/3*y[20]-y[42]-5/9*y[43]-19/24*y[44]+11/9*y[45]-4/3*y[46]-20/9*y[47]+5/18*y[48]-175/72*y[49]-13/4*y[50]+79/16*y[51]-61/10*y[52]+7*y[53]+14*y[54]+12/5*y[56]-27/4*y[57]+9*y[58]-403/48*y[86]-125/8*y[87]+35/4*y[88]-5/24*y[89]$;
G100 := $13/12*y[14]+4*y[15]-4/5*y[16]+y[17]-y[18]-2*y[19]+4/3*y[20]-2*y[42]-32/9*y[43]+13/12*y[44]+20/9*y[45]-4/3*y[46]-20/9*y[47]-5/9*y[48]+145/36*y[49]-5/2*y[50]+35/8*y[51]+7/5*y[52]-5*y[53]-4*y[54]+24*y[56]+27/2*y[57]-18*y[58]+85/24*y[86]+35/4*y[87]-5/2*y[88]+35/12*y[89]$;
G101 := $125/16*y[14]+4*y[15]+13/5*y[16]-1/4*y[17]-9/2*y[19]+6*y[20]-17/6*y[42]+7/6*y[43]-293/48*y[44]+15/2*y[45]-3*y[46]-5/3*y[47]+25/12*y[48]-275/48*y[49]-75/8*y[50]+345/32*y[51]+33/4*y[52]+15/2*y[53]+9*y[54]+18/5*y[56]+27/8*y[57]+39/2*y[58]-295/32*y[86]-395/16*y[87]+45/8*y[88]+335/16*y[89]$;
G102 := $621/124*y[21]-13743/5456*y[22]-4731/682*y[23]+11019/2728*y[24]+7401/6820*y[25]+2701/2728*y[26]+777/248*y[27]+18435/5456*y[28]-1626/341*y[42]-1253/372*y[43]-24257/10912*y[44]+11057/2046*y[45]+12233/1364*y[46]-2857/682*y[47]-42059/4092*y[48]+15127/2976*y[49]+185/2728*y[50]+131877/21824*y[51]+10383/2728*y[59]+7555/341*y[60]-907/155*y[62]-3325/682*y[63]+10383/2728*y[64]-3789/1705*y[66]-171/341*y[67]+53469/13640*y[68]-1656/341*y[69]-29511/2728*y[71]+1503/682*y[72]-19527/2728*y[73]+29061/13640*y[74]-72297/13640*y[75]+2440/341*y[76]-3126/341*y[78]-1656/341*y[79]+2133/341*y[81]+3885/88*y[90]-210579/6820*y[91]-2527977/545600*y[92]+74655/1984*y[93]-615651/10912*y[94]$;
G103 := $2547/124*y[21]-65925/5456*y[22]+3129/682*y[23]-5727/2728*y[24]+14871/6820*y[25]-10117/2728*y[26]-21/248*y[27]-46767/5456*y[28]+23/341*y[42]-871/372*y[43]+5257/10912*y[44]+347/1023*y[45]-2447/1364*y[46]+2297/341*y[47]+7697/4092*y[48]+1793/2976*y[49]+60631/2728*y[50]-99309/21824*y[51]-1095/2728*y[59]-3796/341*y[60]+20*y[61]-1094/155*y[62]-1745/682*y[63]-1095/2728*y[64]+1512/341*y[66]-2808/341*y[67]+16059/13640*y[68]-3/341*y[69]+1431/2728*y[71]+4167/682*y[72]+11175/2728*y[73]+6363/13640*y[74]-61839/13640*y[75]-3796/341*y[76]-936/341*y[78]-3/341*y[79]+621/341*y[81]+17583/440*y[90]-155631/6820*y[91]+663393/545600*y[92]+74745/1984*y[93]-266493/10912*y[94]$;
G104 := $225/31*y[21]-2985/682*y[22]+4935/341*y[23]-2610/341*y[24]+1438/341*y[25]-2045/682*y[26]-85/31*y[27]-7635/682*y[28]+885/341*y[42]+175/93*y[43]-7715/2728*y[44]+2315/2046*y[45]-8345/682*y[46]+6195/682*y[47]+9085/1023*y[48]+85/744*y[49]+1670/341*y[50]-7385/5456*y[51]-915/682*y[59]-3140/341*y[60]+79/31*y[62]+1825/341*y[63]-915/682*y[64]+2181/341*y[66]-9750/341*y[67]-2533/682*y[68]+2405/341*y[69]+8595/682*y[71]-225/341*y[72]+6255/682*y[73]-579/682*y[74]+1263/682*y[75]-3140/341*y[76]-3250/341*y[78]+2405/341*y[79]+3435/341*y[81]-1503/22*y[90]+18495/682*y[91]+26349/27280*y[92]-38415/496*y[93]+111765/2728*y[94]$;
G105 := $-411/62*y[21]-5283/2728*y[22]+3159/341*y[23]-1941/1364*y[24]+9519/3410*y[25]+8865/1364*y[26]+573/124*y[27]+14247/2728*y[28]+1092/341*y[42]-79/62*y[43]+6351/5456*y[44]+6/341*y[45]+11163/682*y[46]-5726/341*y[47]-6211/682*y[48]-$

$483/496*y[49]-22095/1364*y[50]+55125/10912*y[51]+5007/1364*y[59]+888/341*y[60]$
 $-24/31*y[62]-1765/341*y[63]+5007/1364*y[64]-5964/1705*y[66]-240/341*y[67]-2339$
 $/6820*y[68]-2396/341*y[69]+9*y[70]-20871/1364*y[71]-4491/341*y[72]-14439/1364*$
 $y[73]+4941/6820*y[74]-8361/6820*y[75]+888/341*y[76]-80/341*y[78]-2396/341*y[79$
 $] +3*y[80]-1206/341*y[81]+6393/220*y[90]-34473/3410*y[91]-1662153/272800*y[92]+$
 $33951/992*y[93]-220203/5456*y[94];$

$G106 := 225/62*y[21]-9783/2728*y[22]+747/341*y[23]+1383/1364*y[24]+4773/1705*y$
 $[25]-1611/1364*y[26]+171/124*y[27]-10341/2728*y[28]-348/341*y[42]+17/62*y[43]-\$
 $6723/5456*y[44]+577/682*y[45]-1908/341*y[46]+2679/682*y[47]+3111/682*y[48]-633$
 $/496*y[49]+11493/1364*y[50]-14577/10912*y[51]+945/1364*y[59]-1632/341*y[60]-66$
 $/155*y[62]+525/341*y[63]+945/1364*y[64]+12*y[65]-2034/1705*y[66]-6084/341*y[67$
 $]-7581/6820*y[68]-1200/341*y[69]+783/1364*y[71]+1701/341*y[72]+1791/1364*y[73]$
 $-7173/6820*y[74]+9477/6820*y[75]-1632/341*y[76]+6*y[77]-2028/341*y[78]-1200/$
 $341*y[79]-189/341*y[81]-7041/220*y[90]+6507/341*y[91]-136467/272800*y[92]-\$
 $24651/992*y[93]-81117/5456*y[94];$

$G107 := -6/31*y[21]-7473/1364*y[22]+1065/341*y[23]-1851/682*y[24]+13581/3410*y$
 $[25]-1438/341*y[26]+25/31*y[27]-5985/1364*y[28]-377/341*y[42]+16/93*y[43]-947/$
 $1364*y[44]+767/2046*y[45]-2429/682*y[46]+2135/682*y[47]+2029/1023*y[48]-679/$
 $372*y[49]-2939/682*y[50]+8051/2728*y[51]+192/341*y[59]-404/341*y[60]-397/155*y$
 $[62]+995/341*y[63]+192/341*y[64]-1692/1705*y[66]+1593/341*y[67]+1506/1705*y[68$
 $]-1641/341*y[69]-4563/682*y[71]-459/341*y[72]+75/682*y[73]-120/341*y[74]+285/$
 $682*y[75]+3006/341*y[76]+531/341*y[78]-1641/341*y[79]-921/682*y[81]-336/55*y[$
 $90]+20877/3410*y[91]+9267/68200*y[92]-393/248*y[93]-18753/682*y[94];$

$G108 := 351/124*y[21]-29457/5456*y[22]-1647/682*y[23]-387/2728*y[24]+12909/$
 $6820*y[25]+5031/2728*y[26]+795/248*y[27]-15507/5456*y[28]-171/341*y[42]-281/$
 $124*y[43]+12777/10912*y[44]+163/682*y[45]+1647/1364*y[46]+849/682*y[47]-5109/$
 $1364*y[48]-117/992*y[49]-13557/2728*y[50]+97587/21824*y[51]+6273/2728*y[59]+$
 $468/341*y[60]-576/155*y[62]+75/682*y[63]+6273/2728*y[64]+234/341*y[66]+2196/$
 $341*y[67]+17331/13640*y[68]-1401/341*y[69]-13041/2728*y[71]+243/682*y[72]-\$
 $12897/2728*y[73]+6867/13640*y[74]-36351/13640*y[75]+468/341*y[76]+732/341*y[78$
 $]-1401/341*y[79]-1548/341*y[81]+15447/440*y[90]-112149/6820*y[91]-1512783/$
 $545600*y[92]+51561/1984*y[93]-73845/10912*y[94];$

$G109 := 459/62*y[21]-10449/2728*y[22]+1323/341*y[23]+9/1364*y[24]+699/3410*y[$
 $25]+3975/1364*y[26]+267/124*y[27]-8775/2728*y[28]+912/341*y[42]-5/62*y[43]+$
 $4461/5456*y[44]-321/341*y[45]+723/682*y[46]+123/341*y[47]+1007/682*y[48]+839/$
 $496*y[49]+3075/1364*y[50]-38241/10912*y[51]+2709/1364*y[59]-2496/341*y[60]+282$
 $/155*y[62]-1905/341*y[63]+2709/1364*y[64]+8082/1705*y[66]-3528/341*y[67]-9729/$
 $6820*y[68]+2016/341*y[69]+7155/1364*y[71]-648/341*y[72]-1413/1364*y[73]-1821/$
 $1364*y[74]-14571/6820*y[75]-2496/341*y[76]-1176/341*y[78]-30/341*y[79]+72/341*$
 $y[81]+5019/220*y[90]-25227/3410*y[91]+108837/272800*y[92]+16605/992*y[93]+$
 $107919/5456*y[94];$

$G110 := -675/62*y[21]-5619/2728*y[22]+3339/341*y[23]-7869/1364*y[24]+15599/$
 $3410*y[25]-15007/1364*y[26]-203/124*y[27]-8409/2728*y[28]+548/341*y[42]+467/$
 $186*y[43]+17007/5456*y[44]-5402/1023*y[45]-6749/682*y[46]+1918/341*y[47]+12983$
 $/2046*y[48]-9865/1488*y[49]-15135/1364*y[50]-42635/10912*y[51]+10247/1364*y[59$
 $]-2792/341*y[60]-112/155*y[62]+4935/341*y[63]-3393/1364*y[64]+1332/341*y[66]-\$
 $720/341*y[67]-21339/6820*y[68]-3096/341*y[69]-19647/1364*y[71]-1197/341*y[72]+$
 $16017/1364*y[73]-48603/6820*y[74]+54711/6820*y[75]-2792/341*y[76]-240/341*y[78$
 $]-3096/341*y[79]-1572/341*y[81]-16263/220*y[90]+50031/3410*y[91]+1706007/$
 $272800*y[92]-28161/992*y[93]-486699/5456*y[94];$

$G111 := -1437/62*y[21]+17811/2728*y[22]-2271/341*y[23]+4341/1364*y[24]+3653/$
 $3410*y[25]-14149/1364*y[26]-301/124*y[27]+27297/2728*y[28]-2730/341*y[42]+143/$
 $186*y[43]-8887/5456*y[44]+2683/1023*y[45]+907/682*y[46]-3076/341*y[47]+700/$
 $1023*y[48]-3895/1488*y[49]-15179/1364*y[50]+18195/10912*y[51]-2799/1364*y[59]+$
 $4600/341*y[60]-188/31*y[62]+5265/341*y[63]-2799/1364*y[64]-11688/1705*y[66]+$
 $4692/341*y[67]+15907/6820*y[68]-4922/341*y[69]-47565/1364*y[71]-2583/341*y[72]$
 $+30471/1364*y[73]-15933/6820*y[74]+42897/6820*y[75]+4600/341*y[76]+1564/341*y[$
 $78]-4922/341*y[79]-2100/341*y[81]-15009/220*y[90]+91809/3410*y[91]+560049/$
 $272800*y[92]-15639/992*y[93]-684765/5456*y[94];$

$G112 := 783/62*y[21]-50517/2728*y[22]+1305/341*y[23]-9219/1364*y[24]+17823/$
 $3410*y[25]+1179/1364*y[26]+1287/124*y[27]-46611/2728*y[28]-1216/341*y[42]-293/$
 $62*y[43]+13489/5456*y[44]-254/341*y[45]-2187/341*y[46]+4951/341*y[47]+2181/682$
 $*y[48]-1997/496*y[49]+16701/1364*y[50]+27459/10912*y[51]+7641/1364*y[59]-7584/$
 $341*y[60]-1182/155*y[62]+835/341*y[63]+7641/1364*y[64]+3546/1705*y[66]+12888/$
 $341*y[67]-2373/6820*y[68]-2688/341*y[69]-12609/1364*y[71]+864/341*y[72]-9369/$
 $1364*y[73]-477/6820*y[74]-18423/6820*y[75]-7584/341*y[76]+4296/341*y[78]-2688/$
 $341*y[79]-8280/341*y[81]+3231/44*y[90]-38997/3410*y[91]-1909791/272800*y[92]+$
 $81369/992*y[93]-380205/5456*y[94];$

G113 := 2961/62*y[21]-182223/2728*y[22]+12747/341*y[23]+1743/1364*y[24]+4023/682*y[25]+12805/1364*y[26]+3225/124*y[27]-83085/2728*y[28]-696/341*y[42]-3401/186*y[43]+29179/5456*y[44]+6164/1023*y[45]+25445/682*y[46]-1754/341*y[47]-\77837/2046*y[48]+14275/1488*y[49]+13097/1364*y[50]+221481/10912*y[51]+25419/1364*y[59]-5992/341*y[60]-4472/155*y[62]-10885/341*y[63]+45879/1364*y[64]+20484/1705*y[66]+12384/341*y[67]+11085/1364*y[68]-2400/341*y[69]-62883/1364*y[71]-11943/341*y[72]-28131/1364*y[73]+56241/6820*y[74]-186669/6820*y[75]-5992/341*y[76]+4128/341*y[78]-2400/341*y[79]-9*y[80]-12654/341*y[81]+99669/220*y[90]-674961/3410*y[91]-281685/10912*y[92]+421371/992*y[93]-1016439/5456*y[94];
G114 := -2457/62*y[21]+145935/2728*y[22]+18969/341*y[23]+12753/1364*y[24]-\30471/3410*y[25]+7439/1364*y[26]-2217/124*y[27]+66885/2728*y[28]+3324/341*y[42]+3731/186*y[43]-163219/5456*y[44]+23299/1023*y[45]+4219/682*y[46]-4734/341*y[47]-9797/1023*y[48]+61853/1488*y[49]-69587/1364*y[50]-50337/10912*y[51]-7827/1364*y[59]+17752/341*y[60]+3476/155*y[62]+8155/341*y[63]-7827/1364*y[64]+127584/1705*y[66]-101052/341*y[67]-69609/6820*y[68]+12732/341*y[69]+84591/1364*y[71]-585/341*y[72]+51963/1364*y[73]+4383/6820*y[74]+25677/6820*y[75]+17752/341*y[76]-33684/341*y[78]+12732/341*y[79]+28368/341*y[81]-64389/220*y[90]+13305/682*y[91]+2056917/272800*y[92]-337491/992*y[93]+1378095/5456*y[94];
G115 := 945/62*y[21]-90639/2728*y[22]+1389/341*y[23]-6393/1364*y[24]+47031/3410*y[25]+3997/1364*y[26]+2169/124*y[27]-56229/2728*y[28]-606/341*y[42]-1745/186*y[43]+47515/5456*y[44]-4087/1023*y[45]+2545/341*y[46]-416/341*y[47]-11939/2046*y[48]-13469/1488*y[49]-2557/1364*y[50]+123921/10912*y[51]+15315/1364*y[59]-8392/341*y[60]-1604/155*y[62]-7405/341*y[63]+15315/1364*y[64]-30528/1705*y[66]+34488/341*y[67]+28089/6820*y[68]-3924/341*y[69]-49275/1364*y[71]-6192/341*y[72]-27483/1364*y[73]+21321/6820*y[74]-51597/6820*y[75]-8392/341*y[76]+11496/341*y[78]-3924/341*y[79]-10224/341*y[81]+6429/44*y[90]-70899/3410*y[91]-\3016197/272800*y[92]+160995/992*y[93]-563631/5456*y[94];
G116 := -63/10*y[30]-9/10*y[32]+27/10*y[34]-27/4*y[35]+18/5*y[37]+33/10*y[52]-\33/4*y[53]+63/4*y[55]+27/5*y[56]+6*y[59]+24*y[60]-15/2*y[61]-3/2*y[62]-5*y[63]+9/4*y[64]+9/2*y[65]-18*y[66]+9/2*y[67]+3*y[68]+15*y[69]-9/2*y[71]-9/4*y[72]-3*y[73]-3/2*y[74]+9/10*y[75]-10*y[76]+9/2*y[77]-6*y[78]-9/2*y[79]-27/4*y[80]+3*y[86]+3/2*y[87]+3/2*y[88]-15*y[89];
G117 := -963/304*y[29]+1611/190*y[30]-549/76*y[31]-459/95*y[32]+21/38*y[33]-12/5*y[34]+411/38*y[35]-99/38*y[36]-39/38*y[37]+3/5*y[52]+255/76*y[53]-181/19*y[54]-183/76*y[55]-258/95*y[56]-465/76*y[57]-138/19*y[58]-280/19*y[59]+24/19*y[60]-10/19*y[61]+3/76*y[62]+15*y[63]-585/152*y[64]-496/19*y[65]+1623/76*y[66]+84/19*y[67]+47/76*y[68]-673/38*y[69]+357/304*y[70]+27/19*y[71]+102/19*y[72]+405/76*y[73]+359/76*y[74]-613/380*y[75]+300/19*y[76]-168/19*y[77]+107/19*y[78]+45/76*y[79]+535/152*y[80]+375/76*y[81]-345/76*y[86]-75/38*y[87]-6/19*y[88]+321/38*y[89];
G118 := 121/38*y[29]+52/19*y[30]-8/19*y[31]-864/95*y[32]+28/57*y[33]-32/15*y[34]+548/57*y[35]-44/19*y[36]-1172/285*y[37]+44/15*y[52]-1/57*y[53]-280/57*y[54]-9/19*y[55]+400/19*y[56]-705/19*y[57]+308/19*y[58]-3304/171*y[59]-156/19*y[60]-80/171*y[61]+64/19*y[62]+14*y[63]-62/57*y[64]-3968/171*y[65]+1082/57*y[66]+224/57*y[67]-1103/171*y[68]+614/171*y[69]+719/76*y[70]-194/57*y[71]+373/114*y[72]+479/57*y[73]+179/19*y[74]-569/95*y[75]+800/57*y[76]-182/57*y[77]+640/57*y[78]-370/19*y[79]+857/114*y[80]-113/19*y[81]-686/57*y[86]-290/57*y[87]+326/57*y[88]+16/19*y[89];
G119 := -257/152*y[29]+659/95*y[30]-187/38*y[31]-294/95*y[32]+113/114*y[33]-44/15*y[34]+605/57*y[35]+13/19*y[36]-146/285*y[37]-22/15*y[52]+625/114*y[53]-356/57*y[54]-75/38*y[55]+632/95*y[56]-327/38*y[57]-186/19*y[58]-2905/171*y[59]-80/19*y[60]-80/171*y[61]+40/57*y[62]+10*y[63]-5/57*y[64]+820/171*y[65]+797/57*y[66]-460/57*y[67]-1009/342*y[68]-2635/171*y[69]+355/152*y[70]-23/57*y[71]-70/57*y[72]+1015/114*y[73]+404/57*y[74]-2369/570*y[75]+800/57*y[76]-790/57*y[77]+982/57*y[78]+115/38*y[79]+109/76*y[80]-55/38*y[81]-745/114*y[86]-5/57*y[87]-16/57*y[88]+111/19*y[89];
G120 := -965/304*y[29]+248/19*y[30]-385/76*y[31]-225/38*y[32]-55/57*y[33]-43/6*y[34]+2855/114*y[35]+5/19*y[36]-211/114*y[37]-16/3*y[52]+3265/228*y[53]-70/19*y[54]-1205/76*y[55]-213/19*y[56]-1165/76*y[57]-35/19*y[58]-4625/171*y[59]-155/19*y[60]-250/171*y[61]+595/228*y[62]+65/3*y[63]-1265/456*y[64]-5560/171*y[65]+9535/228*y[66]+130/57*y[67]-1105/684*y[68]-11695/342*y[69]+1625/304*y[70]-215/114*y[71]+265/228*y[72]+2425/228*y[73]+2105/228*y[74]-1313/228*y[75]+1550/57*y[76]-435/19*y[77]+1430/57*y[78]+315/76*y[79]+1925/456*y[80]-35/76*y[81]-1735/228*y[86]-245/114*y[87]-50/57*y[88]+385/38*y[89];
G121 := -193/152*y[29]+65/19*y[30]-77/38*y[31]-54/95*y[32]-22/57*y[33]-16/15*y[34]+629/114*y[35]+2/19*y[36]-211/285*y[37]-14/15*y[52]+311/114*y[53]-28/19*y[54]-127/38*y[55]+372/95*y[56]-233/38*y[57]-14/19*y[58]-1166/171*y[59]-62/19*y[60]-100/171*y[61]+119/114*y[62]+16/3*y[63]+89/228*y[64]+512/171*y[65]+1109/114

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*y[66]-575/57*y[67]-677/342*y[68]-1427/171*y[69]+325/152*y[70]+14/57*y[71]+53/
114*y[72]+257/114*y[73]+307/114*y[74]-971/570*y[75]+80/19*y[76]-117/19*y[77]+
344/57*y[78]-13/38*y[79]+385/228*y[80]-7/38*y[81]-461/114*y[86]-163/57*y[87]+
94/57*y[88]+39/19*y[89];
G122 := -407/304*y[29]+911/190*y[30]-85/76*y[31]-357/95*y[32]-61/57*y[33]-46/
15*y[34]+565/57*y[35]-77/38*y[36]-91/114*y[37]-17/15*y[52]+1051/228*y[53]-55/
57*y[54]-345/76*y[55]+382/95*y[56]-1299/76*y[57]+108/19*y[58]-2093/171*y[59]-\
70/19*y[60]-70/171*y[61]+311/228*y[62]+11*y[63]-1061/456*y[64]-3472/171*y[65]+
3787/228*y[66]+481/57*y[67]-2065/684*y[68]-4141/342*y[69]+1177/304*y[70]-70/57
*y[71]+124/57*y[72]+907/228*y[73]+1243/228*y[74]-4787/1140*y[75]+700/57*y[76]-\
392/57*y[77]+731/57*y[78]-231/76*y[79]+547/152*y[80]-481/76*y[81]-919/228*y[86
]-137/114*y[87]-14/57*y[88]+237/38*y[89];
G123 := -93/76*y[29]+846/95*y[30]-126/19*y[31]-168/19*y[32]+14/19*y[33]-16/5*y
[34]+274/19*y[35]-66/19*y[36]-282/95*y[37]+42/5*y[52]-191/38*y[53]-1028/57*y[
54]+49/38*y[55]+568/95*y[56]-1165/38*y[57]+234/19*y[58]-462/19*y[59]-196/19*y[
60]-40/57*y[61]+41/57*y[62]+22*y[63]-157/38*y[64]-1984/57*y[65]+541/19*y[66]+
112/19*y[67]-352/57*y[68]-1118/57*y[69]+183/38*y[70]-135/19*y[71]+63/38*y[72]+
325/19*y[73]+625/57*y[74]-1658/285*y[75]+400/19*y[76]-406/57*y[77]+320/19*y[78
]-213/19*y[79]+505/57*y[80]-122/19*y[81]-305/19*y[86]-240/19*y[87]+106/19*y[88
]+214/19*y[89];
G124 := 117/38*y[29]-768/95*y[30]-36/19*y[31]-696/95*y[32]+42/19*y[33]+24/5*y[
34]-204/19*y[35]-84/19*y[36]-48/95*y[37]+56/5*y[52]-505/19*y[53]-192/19*y[54]+
501/19*y[55]+432/19*y[56]-693/19*y[57]+588/19*y[58]+478/57*y[59]-56/19*y[60]-\
880/57*y[61]+98/19*y[62]+44/3*y[63]-55/19*y[64]-464/19*y[65]-486/19*y[66]+336/
19*y[67]-504/19*y[68]+668/19*y[69]+663/38*y[70]-6/19*y[71]-105/19*y[72]-108/19
*y[73]+226/19*y[74]-214/95*y[75]-320/19*y[76]+620/19*y[77]+48/19*y[78]-696/19*
y[79]+106/19*y[80]-708/19*y[81]-250/19*y[86]-188/19*y[87]+280/19*y[88]-460/19*
y[89];
G125 := 117/76*y[29]+129/95*y[30]-18/19*y[31]-519/95*y[32]+21/19*y[33]-6/5*y[
34]+69/19*y[35]-42/19*y[36]-39/19*y[37]+41/10*y[52]-725/76*y[53]-96/19*y[54]-\
195/76*y[55]+216/19*y[56]-693/38*y[57]+294/19*y[58]-616/57*y[59]-28/19*y[60]-\
440/57*y[61]+49/19*y[62]+37/3*y[63]-55/38*y[64]-346/19*y[65]+213/19*y[66]+54/
19*y[67]-257/38*y[68]+182/19*y[69]-21/76*y[70]-63/38*y[71]-39/76*y[72]+633/38*
y[73]+113/19*y[74]-727/190*y[75]+220/19*y[76]-32/19*y[77]+138/19*y[78]-525/38*
y[79]+383/76*y[80]-195/38*y[81]-193/38*y[86]-37/19*y[87]+26/19*y[88]+55/19*y[
89];
G126 := -1/4*y[29]+1/2*y[30]-1/2*y[31]+1/5*y[32]-1/6*y[33]+4/5*y[34]-2/3*y[35]
+y[36]+1/5*y[37]+8/15*y[52]-10/3*y[53]-3*y[55]+32/5*y[56]+2*y[57]-5/3*y[59]+20
/3*y[60]-20/3*y[61]+2/3*y[62]-5/9*y[63]+5/2*y[64]+224/9*y[65]+4/3*y[66]-32/3*y
[67]+11/9*y[68]-23/9*y[69]-29/4*y[70]+2/3*y[71]+29/6*y[72]+19/3*y[73]-2/3*y[74
]-2/5*y[75]-26/3*y[77]+8/3*y[78]+3*y[79]-1/2*y[80]+5*y[81]-2/3*y[86]-8*y[87]+4
/3*y[88]+4*y[89];
G127 := -9/38*y[29]+1449/95*y[30]-63/19*y[31]+36/95*y[32]+147/38*y[33]-6*y[34]
+156/19*y[35]-90/19*y[36]-939/95*y[37]-6*y[52]+579/38*y[53]-108/19*y[54]-819/
19*y[55]-324/95*y[56]-117/38*y[57]-54/19*y[58]-519/38*y[59]-516/19*y[60]+120/
19*y[61]+105/19*y[62]+22*y[63]-297/38*y[64]-736/19*y[65]+831/19*y[66]-96/19*y[
67]-263/38*y[68]-560/19*y[69]+117/19*y[70]+435/38*y[71]+633/76*y[72]-93/38*y[
73]+120/19*y[74]-99/95*y[75]+960/19*y[76]-321/19*y[77]+312/19*y[78]-99/38*y[79
]+1179/76*y[80]+315/38*y[81]-618/19*y[86]-576/19*y[87]+300/19*y[88]+468/19*y[
89];
G128 := -75/76*y[29]+2157/190*y[30]-183/38*y[31]-84/19*y[32]+64/19*y[33]-6*y[
34]+232/19*y[35]-33/19*y[36]-426/95*y[37]-23/10*y[52]-1/76*y[53]-108/19*y[54]-\
1053/76*y[55]-552/95*y[56]+111/38*y[57]-54/19*y[58]-747/38*y[59]+16/19*y[60]-\
70/19*y[61]+48/19*y[62]+43/3*y[63]-63/19*y[64]-4/57*y[65]+622/19*y[66]-248/19*
y[67]+14/57*y[68]-1718/57*y[69]-168/19*y[70]+113/19*y[71]+277/19*y[72]+286/19*
y[73]+101/19*y[74]-711/190*y[75]+580/19*y[76]-473/19*y[77]+274/19*y[78]+112/19
*y[79]+138/19*y[80]+357/19*y[81]-571/38*y[86]-291/19*y[87]+34/19*y[88]+525/19*
y[89];
G129 := -25/76*y[29]+263/190*y[30]-61/38*y[31]-26/95*y[32]+64/57*y[33]+1/5*y[
34]-163/114*y[35]-11/19*y[36]-151/190*y[37]+14/15*y[52]-485/114*y[53]-36/19*y[
54]+12/19*y[55]+100/19*y[56]+37/38*y[57]-18/19*y[58]-367/114*y[59]+92/57*y[60]
+25/57*y[61]+1/114*y[62]+46/9*y[63]-65/76*y[64]+1535/171*y[65]+161/114*y[66]-\
305/57*y[67]-599/342*y[68]-122/171*y[69]-53/76*y[70]+169/114*y[71]+937/228*y[
72]+401/114*y[73]+221/114*y[74]-14/95*y[75]+200/57*y[76]-302/57*y[77]+236/57*y
[78]-71/38*y[79]+127/76*y[80]+67/38*y[81]-115/114*y[86]-59/19*y[87]+34/57*y[88
]+61/19*y[89];
G130 := -y[29]-74/5*y[30]-2*y[31]+16/5*y[32]-2/3*y[33]+28/5*y[34]-26/3*y[35]+4
*y[36]+46/5*y[37]+116/15*y[52]-82/3*y[53]+48*y[55]+8/5*y[56]+8*y[57]+37/3*y[59

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$$] + 116/3*y[60] - 80/3*y[61] - 22/3*y[62] - 164/9*y[63] + 29/2*y[64] + 368/9*y[65] - 152/3*y[66] + 16/3*y[67] + 50/9*y[68] + 280/9*y[69] - 11/4*y[70] - 43/3*y[71] - 109/6*y[72] + 4/3*y[73] - 8/3*y[74] + 1/5*y[75] - 160/3*y[76] + 46/3*y[77] - 64/3*y[78] + 4*y[79] - 17*y[80] - 10*y[81] + 43/3*y[86] + 22*y[87] + 4/3*y[88] - 50*y[89];$$

$$G131 := 30/19*y[29] - 426/95*y[30] + 78/19*y[31] + 66/19*y[32] - 11/38*y[33] - 6/5*y[34] - 52/19*y[35] - 84/19*y[36] - 21/19*y[37] + 34/5*y[52] - 193/38*y[53] + 36/19*y[54] + 558/19*y[55] + 204/19*y[56] - 417/38*y[57] + 18/19*y[58] + 173/38*y[59] + 172/19*y[60] - 40/19*y[61] - 35/19*y[62] - 22/3*y[63] + 99/38*y[64] + 736/57*y[65] - 277/19*y[66] + 32/19*y[67] + 263/114*y[68] + 560/57*y[69] - 39/19*y[70] - 145/38*y[71] - 211/76*y[72] + 31/38*y[73] - 40/19*y[74] + 33/95*y[75] - 320/19*y[76] + 107/19*y[77] - 104/19*y[78] + 33/38*y[79] - 393/76*y[80] - 105/38*y[81] + 206/19*y[86] + 192/19*y[87] - 100/19*y[88] - 156/19*y[89];$$

$$G132 := y[38] + 4*y[40] - 2/3*y[59] - 3*y[60] - 4/3*y[61] + 2/3*y[62] + 11/6*y[64] - 4/5*y[66] - 7*y[67] - 8/5*y[68] + 13/2*y[70] + 4/5*y[71] - 3*y[72] - y[73] - 2/3*y[74] + 7/15*y[75] - 2/3*y[77] - 52/15*y[78] - 8/3*y[79] - 9/5*y[80] + 1/5*y[81] - 4/5*y[82] + 78/5*y[83] + 8/5*y[84] - 13/15*y[85] + 12*y[90] - 2*y[92] + 10*y[93] - 2*y[94];$$

$$G133 := 5*y[38] + 3/2*y[39] - 5/2*y[40] + 35/3*y[59] - 250/3*y[61] + 35/3*y[62] + 80/3*y[64] + 2*y[66] - 75*y[67] + 2*y[68] + 40*y[69] + 35/4*y[70] + 21/2*y[71] - 45/2*y[72] - 35/2*y[73] - 41/3*y[74] + 46/3*y[75] + 10*y[76] + 35*y[77] - 124/3*y[78] - 40*y[79] - 27/4*y[80] - 53*y[81] - 27/5*y[82] + 177/5*y[83] - 63/5*y[84] - 323/30*y[85] + 120*y[90] - 14*y[91] - 179/10*y[92] + 165/2*y[93] - 20*y[94];$$

$$G134 := -65/4*y[38] - 6*y[39] + 25*y[40] - 215/12*y[59] - 135/4*y[60] + 475/3*y[61] - 197/12*y[62] - 35/2*y[63] - 685/24*y[64] - 65/4*y[66] + 225/4*y[67] - 9*y[68] - 75/2*y[69] + 775/16*y[70] - 99/4*y[71] - 315/8*y[72] - 35/4*y[73] + 293/12*y[74] - 55/3*y[75] - 75*y[77] + 223/3*y[78] + 30*y[79] + 9/4*y[80] + 209/4*y[81] - 168/5*y[82] + 60*y[83] - 6/5*y[84] + 571/60*y[85] - 99*y[90] + 74*y[91] + 199/20*y[92] - 255/4*y[93] + 50*y[94];$$

$$G135 := 1/2*y[38] + 2*y[40] - 13/3*y[59] - y[60] + 16*y[61] - 2*y[62] - 43/12*y[64] - 1/5*y[66] + 10*y[67] - 2/5*y[68] - 10*y[69] + 19/4*y[70] - 9/5*y[71] + 9/2*y[72] + 2*y[73] + 2*y[74] - 37/15*y[75] - 32/3*y[77] + 82/15*y[78] + 16/3*y[79] + 3/10*y[80] + 59/5*y[81] - 1/5*y[82] + 27/5*y[83] + 11/5*y[84] + 7/10*y[85] - 12*y[90] + 2*y[92] - 10*y[93] + 2*y[94];$$

$$G136 := 3/2*y[38] + 6*y[40] - y[59] - 6*y[60] - 6*y[61] + 2*y[62] + 23/4*y[64] - 10*y[65] - 3*y[66] - 15*y[67] - 2*y[68] + 14*y[69] + 75/4*y[70] + 3*y[71] - 27/2*y[72] - 3*y[73] - 2*y[74] + 4*y[75] - 10*y[78] - 12*y[79] - 9/2*y[80] - 6*y[81] - 27/5*y[82] + 189/5*y[83] + 9/5*y[84] - 41/10*y[85] + 48*y[90] - 33/5*y[92] + 33*y[93] + 6*y[94];$$

$$G137 := -10*y[38] - 3*y[39] + 30*y[40] - 25/2*y[59] - 45/2*y[60] + 370/3*y[61] - 27/2*y[62] - 55/3*y[63] - 95/6*y[64] - 45/2*y[66] + 75/2*y[67] - 6*y[68] - 25*y[69] + 475/8*y[70] - 55/2*y[71] - 195/4*y[72] - 45/2*y[73] + 39/2*y[74] - 38/3*y[75] - 200/3*y[77] + 170/3*y[78] + 40/3*y[79] + 85/2*y[81] - 157/5*y[82] + 396/5*y[83] + 17/5*y[84] + 27/5*y[85] - 58*y[90] + 76*y[91] - 3/10*y[92] - 85/2*y[93] + 40*y[94];$$

$$G138 := y[38] + 4*y[40] + 8/3*y[59] - 4*y[60] - 24*y[61] + 4*y[62] + 32/3*y[64] - 14/5*y[66] - 30*y[67] - 8/5*y[68] + 20*y[69] + 14*y[70] + 24/5*y[71] - 14*y[72] - 6*y[73] - 4*y[74] + 92/15*y[75] + 28/3*y[77] - 212/15*y[78] - 56/3*y[79] - 24/5*y[80] - 94/5*y[81] - 24/5*y[82] + 166/5*y[83] + 4/5*y[84] - 26/5*y[85] + 64*y[90] - 44/5*y[92] + 44*y[93] + 8*y[94];$$

$$G139 := -75/4*y[38] - 5*y[39] + 25*y[40] - 75/4*y[59] - 175/12*y[60] + 175*y[61] - 275/12*y[62] - 25/2*y[63] - 325/8*y[64] - 35/4*y[66] + 375/4*y[67] - 125/2*y[69] + 325/16*y[70] - 125/4*y[71] - 25/8*y[72] - 25/4*y[73] + 335/12*y[74] - 25*y[75] - 75*y[77] + 85*y[78] + 50*y[79] + 45/4*y[80] + 315/4*y[81] - 16*y[82] - 9*y[83] + 8*y[84] + 217/12*y[85] - 185*y[90] + 70*y[91] + 81/4*y[92] - 525/4*y[93] + 50*y[94];$$

$$G140 := -35/2*y[38] - 9*y[39] - 60*y[40] + 35/2*y[59] + 105/2*y[60] - 90*y[61] + 37/6*y[62] + 35/3*y[63] - 115/12*y[64] + 67/2*y[66] + 75/2*y[67] + 24*y[68] - 25*y[69] - 965/8*y[70] + 45/2*y[71] + 525/4*y[72] + 35/2*y[73] - 97/6*y[74] + 4/3*y[75] + 80*y[77] - 160/3*y[78] + 20*y[79] + 45/2*y[80] - 5/2*y[81] + 216/5*y[82] - 1113/5*y[83] - 138/5*y[84] + 289/30*y[85] - 142*y[90] - 80*y[91] + 219/10*y[92] - 235/2*y[93] - 50*y[94];$$

$$G141 := 25/4*y[38] + 75/4*y[59] + 25/4*y[60] - 75*y[61] + 175/12*y[62] - 25/6*y[63] + 725/24*y[64] - 5/4*y[66] - 375/4*y[67] + 125/2*y[69] + 475/16*y[70] + 45/4*y[71] - 375/8*y[72] - 175/4*y[73] - 115/12*y[74] + 50/3*y[75] + 25*y[77] - 95/3*y[78] - 50*y[79] - 45/4*y[80] - 155/4*y[81] - 15*y[82] + 84*y[83] + 9*y[84] - 115/12*y[85] + 145*y[90] + 20*y[91] - 93/4*y[92] + 425/4*y[93] - 25*y[94];$$

$$G142 := -12*y[46] + 8*y[47] + 7*y[48] - 33/2*y[86] - 6*y[87] + 9*y[88] - 9*y[89] + 28*y[95];$$

$$G143 := 4*y[60] - 4*y[61] + 4/5*y[62] + 4/3*y[63] - 12*y[65] + 12/5*y[66] + 12*y[67] + 16/5*y[68] + 4*y[69] + 4*y[80] + 9*y[86] + 8/3*y[87] - 40/3*y[88] + 26*y[89] + 44/15*y[90] + 52/5*y[91] - 237/25*y[92] - 11*y[93] + 14*y[94] + 28/15*y[95];$$

$$G144 := 22/3*y[60] - 14/3*y[61] - 2/15*y[62] + 10/9*y[63] - 14*y[65] - 2/5*y[66] + 22*y[67] + 22/15*y[68] + 10/3*y[69] - 8/3*y[80] - 8*y[86] - 43/9*y[87] + 44/9*y[88] + 8/3*y[89] - 322/45*y[90] + 94/15*y[91] + 17/25*y[92] + 31/3*y[93] - 28/3*y[94] - 434/45*y[95];$$

$$G145 := 8/3*y[60] - 4/3*y[61] + 8/15*y[62] + 8/9*y[63] - y[64] - 4*y[65] + 8/5*y[66] + 8*y[67] + 32/15*y[68] + 8/3*y[69] - 3*y[70] + 14/3*y[80] + 10*y[86] + 46/9*y[87] - 104/9*y[88] + 52/3*y[89] + 388/45*y[90] + 104/15*y[91] - 178/25*y[92] - 10/3*y[93] + 34/3*y[94] + 476/45*y[95];$$

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G146 := -5/6*y[60]+25/6*y[61]-13/6*y[62]-35/18*y[63]+25/2*y[65]-13/2*y[66]-5/2
*y[67]-1/6*y[68]-35/6*y[69]-3*y[71]-1/3*y[80]-125/36*y[87]+83/18*y[88]-29/3*y[
89]+19/18*y[90]+11/6*y[91]+5/2*y[92]+5/3*y[93]+65/6*y[94]+35/18*y[95];
G147 := 5/2*y[60]-7/2*y[61]+11/10*y[62]+11/6*y[63]-21/2*y[65]+33/10*y[66]+15/2
*y[67]-1/10*y[68]+11/2*y[69]-3*y[79]-1/2*y[80]+3/2*y[86]+95/12*y[87]-17/6*y[88
]+2*y[89]-209/30*y[90]+23/10*y[91]+6/25*y[92]+5/2*y[93]-35/2*y[94]-133/30*y[95
];
```