```
> restart:

  ordre := 8;

  ## ORDRE 8

  F[5, 1, 3, 0, 0] := 4:
  F[4, 1, 4, 0, 0] := 0:
  F[5, 0, 3, 1, 0] := 0:
  F[6, 0, 2, 1, 0] := - 6:
  F[4, 2, 3, 0, 0] := - 5:
  F[8, 0, 0, 1, 0] := 0:
  F[7, 0, 1, 1, 0] := - 8*F[8, 0, 0, 1, 0]:
  F[4, 1, 3, 0, 1] := 0:
  F[5, 0, 2, 1, 1] := 0:
  F[4, 0, 3, 2, 0] := 30:
  F[5, 0, 2, 2, 0] := 6:
  F[7, 0, 0, 2, 0] := 0:
  F[6, 0, 1, 2, 0] := 3:
  F[7, 0, 0, 1, 1] := 0:
  F[6, 0, 1, 1, 1] := 0:
  F[4, 0, 3, 1, 1] := 0:
  F[6, 0, 0, 2, 1] := 0:
  F[6, 0, 0, 3, 0] := 0:
  F[5,0,1,3,0] := -32/3:
  F[3,3,3,0,0] := -20/3:
  F[4,0,2,3,0] := 85/3+(3/4)*conjugate(F[3, 3, 3, 0, 0]):
  F[3, 2, 3, 0, 1] := 0:
  F[5, 0, 1, 2, 1] := 0:
  F[4, 0, 2, 2, 1] := 0:
  F[5, 0, 0, 3, 1] := 0:
  F[4, 0, 1, 3, 1] := 0:
  F[5, 0, 0, 4, 0] := 8:
  F[4,0,1,4,0] := -40/3:
  F[3, 0, 2, 3, 1] := 0:
  F[3, 0, 2, 4, 0] := 0:
  F[4, 0, 0, 4, 1] := 0:
  F[4,0,0,5,0] := 1/2:
  F[3, 0, 1, 5, 0] := 0:
  F[3, 0, 1, 4, 1] := 0:
  F[3, 0, 0, 6, 0] := 0:
  F[3, 0, 0, 5, 1] := 0:

  ReF40400 := 0:
  F[5,0,3,0,0] := -2+(4/5)*ReF40400:
  F[3, 0, 2, 1, 2] := 0:
  F[5, 0, 0, 1, 2] := 0:
  F[4, 0, 3, 0, 1] := 0:
  F[4, 0, 0, 2, 2] := 0:
  F[3, 0, 1, 2, 2] := 0:
  F[3, 0, 0, 3, 2] := 0:

  assume(ReF40401,real):
```

```
F[4,0,4,0,1] := ReF40401:

ReA103 := -(1/4*I)*d*conjugate(F[4, 1, 4, 0, 0])+(1/4*I)*d*F[4,
1, 4, 0, 0]+(5/4)*a*F[5, 0, 4, 0, 0]+(1/4*I)*a*F[4, 0, 3, 0, 1]
+3*a*ReF40400+(5/4)*a*conjugate(F[5, 0, 4, 0, 0])+5*a-(1/4*I)*a*
conjugate(F[4, 0, 3, 0, 1])+(5/4*I)*b*F[5, 0, 4, 0, 0]-(1/4)*
conjugate(F[4, 0, 3, 0, 1])*b-(1/4)*F[4, 0, 3, 0, 1]*b-(5/4*I)*
b*conjugate(F[5, 0, 4, 0, 0])-(9/2)*c*ReF40400+(1/4)*c*conjugate
(F[4, 1, 4, 0, 0])+(1/4)*c*F[4, 1, 4, 0, 0]+(1/4)*e*F[4, 0, 4,
0, 1]:

#assume(ReA103,real):
assume(ImA103,real):
A[1,0,3] := ReA103 + I*ImA103:

B[0,0,3] := (1/4*I)*d*conjugate(F[5, 1, 3, 0, 0])+(3/2*I)*b*
conjugate(F[6, 0, 3, 0, 0])-(1/4*I)*d*conjugate(F[5, 0, 3, 1, 0]
)+(1/2*I)*d*conjugate(F[5, 0, 3, 0, 0])-3*a*conjugate(F[5, 0, 3,
0, 0])-4*a-(3/2)*a*conjugate(F[6, 0, 3, 0, 0])-a*conjugate(F[5,
0, 4, 0, 0])+(1/2*I)*a*conjugate(F[4, 0, 3, 0, 1])-(4*I)*b-(1/2)
*conjugate(F[4, 0, 3, 0, 1])*b-I*b*conjugate(F[5, 0, 4, 0, 0])+
I*b*conjugate(F[5, 0, 3, 0, 0])-(1/4)*c*conjugate(F[5, 1, 3, 0,
0])-(1/4)*c*conjugate(F[5, 0, 3, 1, 0])+10*c+(9/2)*c*conjugate(F
[5, 0, 3, 0, 0])-(1/4)*e*conjugate(F[5, 0, 3, 0, 1]):

B[2,0,2] := -2*conjugate(A[1, 0, 3])-4*A[1, 0, 3]+2*conjugate(F
[4, 0, 3, 0, 1])*b+(2*I)*conjugate(F[4, 0, 3, 0, 1])*a+(2*I)*F
[4, 0, 3, 0, 1]*a-2*F[4, 0, 3, 0, 1]*b:

B[1,0,2] := -(6*I)*b*ReF40400+(15*I)*b-15*a+(15/2*I)*b*conjugate
(F[5, 0, 3, 0, 0])-(15/2)*a*conjugate(F[5, 0, 3, 0, 0])-(3/2)*e*
conjugate(F[4, 0, 3, 0, 1])-6*a*ReF40400:

B[0,2,2] := 0:
B[1,1,2] := (45/2*I)*b+(45/4*I)*b*F[5, 0, 3, 0, 0]+(5/2)*
conjugate(B[1, 0, 2])-(9*I)*b*ReF40400+(45/2)*a+9*a*ReF40400+
(45/4)*a*F[5, 0, 3, 0, 0]+(9/4)*e*F[4, 0, 3, 0, 1]:
B[0,4,1] := 0:
B[1,3,1] := 16*a-16*c:
B[2,2,1] := -24*a+24*c:
B[3,1,1] := -48*a+48*c:
B[4,0,1] := 12*conjugate(B[0, 0, 3])-12*a+6*F[4, 0, 3, 0, 1]*b+
(6*I)*F[4, 0, 3, 0, 1]*a+12*c:
B[0,6,0] := -6*conjugate(F[3, 0, 0, 6, 0])*a+(6*I)*conjugate(F
[3, 0, 0, 6, 0])*b:
B[1,5,0] := -6*conjugate(F[3, 0, 1, 5, 0])*a+(6*I)*conjugate(F
[3, 0, 1, 5, 0])*b:
B[2,4,0] := -6*conjugate(F[3, 0, 2, 4, 0])*a+(6*I)*conjugate(F
[3, 0, 2, 4, 0])*b:
B[3,3,0] := -6*F[3, 3, 3, 0, 0]*a-20*c+(20*I)*d+(6*I)*F[3, 3, 3,
0, 0]*b:
B[4,2,0] := -6*F[4, 2, 3, 0, 0]*a+(6*I)*F[4, 2, 3, 0, 0]*b:
B[5,1,0] := (6*I)*F[5, 1, 3, 0, 0]*b-6*F[5, 1, 3, 0, 0]*a+30*c-
(30*I)*d:
B[6,0,0] := -6*F[6, 0, 3, 0, 0]*a-2*F[6, 0, 2, 1, 0]*c+(2*I)*F
[6, 0, 2, 1, 0]*d+(6*I)*F[6, 0, 3, 0, 0]*b:
```

```
C[0,0,4] := -(1/4)*conjugate(A[1, 0, 3])+(1/4)*A[1, 0, 3]:
A[0,1,3] := -(1/8)*e*F[4, 0, 3, 0, 1]-(5/4)*a-(5/4*I)*b-(5/8)*a*
F[5, 0, 3, 0, 0]-(5/8*I)*b*F[5, 0, 3, 0, 0]+(1/2*I)*b*ReF40400-
(1/2)*a*ReF40400-(1/4)*conjugate(B[1, 0, 2]):
A[0,3,2] := 0:
A[1,2,2] := 0:
A[2,1,2] := 0:
A[3,0,2] := -3*conjugate(B[0, 0, 3]):
A[0,5,1] := 0:
A[1,4,1] := 0:
A[2,3,1] := 0:
A[3,2,1] := 0:
A[4,1,1] := 0:
A[5,0,1] := 0:
A[0,7,0] := 0:
A[1,6,0] := 0:
A[2,5,0] := 0:
A[3,4,0] := 0:
A[4,3,0] := 0:
A[5,2,0] := 0:
A[6,1,0] := 0:
A[7,0,0] := I*F[7, 0, 1, 1, 0]*d-F[7, 0, 1, 1, 0]*c:

C[0,2,3] := 0:
C[1,1,3] := 0:
C[2,0,3] := -conjugate(B[0, 0, 3]):
C[0,4,2] := 0:
C[1,3,2] := 0:
C[2,2,2] := 0:
C[3,1,2] := 0:
C[4,0,2] := 0:
C[0,6,1] := 0:
C[1,5,1] := 0:
C[2,4,1] := 0:
C[3,3,1] := 0:
C[4,2,1] := 0:
C[5,1,1] := 0:
C[6,0,1] := 0:
C[0,8,0] := 0:
C[1,7,0] := 0:
C[2,6,0] := 0:
C[3,5,0] := 0:
C[4,4,0] := 0:
C[5,3,0] := 0:
C[6,2,0] := 0:
C[7,1,0] := 0:
C[8,0,0] := 2*F[8, 0, 0, 1, 0]*c-(2*I)*F[8, 0, 0, 1, 0]*d:

## ORDRE 7

Ww := 0:

F[4,0,3,1,0] := 4-(1/3)*Ww:
F[4, 1, 3, 0, 0] := - 5:
F[4,0,3,0,0] := -F[4, 1, 3, 0, 0]-8+(1/2)*conjugate(Ww)+
conjugate(F[4, 0, 3, 1, 0]):
```

```
F[5,0,2,1,0] := 3*F[4, 0, 3, 0, 0]:

F[7, 0, 0, 1, 0] := 0:
F[6, 0, 1, 1, 0] := - 7*F[7, 0, 0, 1, 0]:

#assume(ReF40400, real):
F[4, 0, 4, 0, 0] := ReF40400:

F[4, 0, 2, 1, 1] := 0:
F[3,1,3,0,1] := (2*I)*Ww:
F[3, 2, 3, 0, 0] := 0:
F[4,0,2,2,0] := -4:
F[6, 0, 0, 2, 0] := 0:
F[6, 0, 0, 1, 1] := 0:
F[5, 0, 1, 1, 1] := 0:
F[5, 0, 1, 2, 0] := 0:
F[5,0,0,3,0] := -2/3:
F[4,0,1,3,0] := -12:
F[3,0,2,3,0] := 2*F[4, 0, 1, 3, 0]+82/3:
F[3, 0, 2, 2, 1] := (1/2*I)*Ww:
F[5, 0, 0, 2, 1] := 0:
F[4, 0, 1, 2, 1] := 0:
F[4, 0, 0, 3, 1] := 0:
F[4,0,0,4,0] := 13/6:
F[3, 0, 1, 4, 0] := 0:
F[3, 0, 1, 3, 1] := 0:
F[3, 0, 0, 5, 0] := 0:
F[3, 0, 0, 4, 1] := 0:

Vv := 0:
F[4,0,2,1,0] := (8/3)*Vv:
F[3,0,0,2,2] := -(1/4)*Ww-Vv:

Rr := -2:

A[0,0,3] := -(5/4)*a*conjugate(F[4, 0, 3, 0, 0])+(1/6)*a*
conjugate(F[4, 0, 2, 1, 0])+Rr*c+(1/3)*a*Rr+(8/3)*a+(1/3)*a*F[4,
0, 2, 1, 0]+(2/3*I)*Rr*e*Vv+(1/16*I)*e*Rr*Ww-(1/8*I)*e*conjugate
(F[4, 0, 3, 0, 0])*Rr+(1/6*I)*e*Vv*F[4, 0, 2, 1, 0]+(7/12*I)*e*
Vv*conjugate(F[4, 0, 2, 1, 0])+(13/24*I)*b*Rr*F[4, 0, 2, 1, 0]+
(23/24*I)*b*Rr*conjugate(F[4, 0, 2, 1, 0])+(1/8)*c*Ww-(1/2)*a*
Rr^2+(1/16*I)*e*Rr^3-(8/3*I)*d+(8/3*I)*b+(1/8*I)*e*Rr^2+(1/8*I)*
d*Ww-(5/6*I)*d*Rr+(4/3*I)*e*Vv+(1/2*I)*d*Rr^2+(11/3*I)*b*Rr+
(17/12*I)*Rr^2*b-(1/8*I)*d*conjugate(F[4, 0, 3, 1, 0])-(1/3*I)*
d*F[4, 0, 2, 1, 0]+(1/8*I)*d*conjugate(F[4, 1, 3, 0, 0])-(7/6*I)
*d*conjugate(F[4, 0, 2, 1, 0])+(1/8*I)*d*conjugate(F[4, 0, 3, 0,
0])-(1/4*I)*e*conjugate(F[4, 0, 3, 0, 0])+(7/6*I)*b*conjugate(F
[4, 0, 2, 1, 0])+(1/3*I)*b*F[4, 0, 2, 1, 0]-(1/2*I)*b*F[4, 0, 4,
0, 0]+(1/4*I)*b*conjugate(F[4, 0, 3, 0, 0])+(5/8*I)*b*conjugate
(F[5, 0, 3, 0, 0])-(1/4)*B[1, 0, 2]-(5/8)*a*conjugate(F[5, 0, 3,
0, 0])-(1/8)*c*conjugate(F[4, 1, 3, 0, 0])+(15/8)*c*conjugate(F
[4, 0, 3, 0, 0])-(1/8)*e*conjugate(F[4, 0, 3, 0, 1])-(1/8)*c*
conjugate(F[4, 0, 3, 1, 0])-(1/2)*a*F[4, 0, 4, 0, 0]+(1/8)*a*F
[4, 0, 2, 1, 0]*Rr-(1/8)*a*Rr*conjugate(F[4, 0, 2, 1, 0]):

A[1,0,2] := 6*a*conjugate(F[4, 0, 3, 0, 0])+4*a*conjugate(F[4,
```

```
0, 2, 1, 0])-3*c*conjugate(F[4, 0, 2, 1, 0])+6*F[4, 0, 3, 0, 0]*
a-3*F[4, 0, 2, 1, 0]*c-32*Rr*c-3*Ww*a+18*a*Rr+I*Rr*e*Vv+24*a-64*
c+8*a*F[4, 0, 2, 1, 0]-I*F[4, 0, 2, 1, 0]*d+I*Rr^2*b+I*d*
conjugate(F[4, 0, 2, 1, 0])+I*Ww*b+(4*I)*e*Vv+(6*I)*F[4, 0, 3,
0, 0]*b-(6*I)*conjugate(F[4, 0, 3, 0, 0])*b+(6*I)*b*Rr+(4*I)*d*
Rr+(4*I)*b*conjugate(F[4, 0, 2, 1, 0])-(8*I)*b*F[4, 0, 2, 1, 0]+
(8*I)*b+(8*I)*d:

B[0,0,2] := -2*Vv*c-(2*I)*Vv*d:
B[0,1,2] := -conjugate(A[1, 0, 2])+A[1, 0, 2]:
B[0,3,1] := 4*c-(2*I)*e*Vv+(8*I)*b-6*a*Rr+(4*I)*b*Rr-16*a:
B[1,2,1] := (6*I)*d*Rr-6*Rr*c-36*c+(12*I)*d-(24*I)*b+72*a+24*a*
Rr-(12*I)*b*Rr+(12*I)*e*Vv:
B[2,1,1] := -12*a*Rr-(6*I)*Rr*e*Vv-(12*I)*b*Rr+12*Rr*c+6*Ww*a-
(6*I)*Ww*b-(6*I)*Rr^2*b+10*conjugate(B[0, 0, 2]):
B[3,0,1] := -2*Ww*c+(2*I)*Ww*d+4*conjugate(B[1, 0, 2])+24*
conjugate(A[0, 0, 3]):
B[0,5,0] := -6*conjugate(F[3, 0, 0, 5, 0])*a+(6*I)*conjugate(F
[3, 0, 0, 5, 0])*b:
B[1,4,0] := (6*I)*conjugate(F[3, 0, 1, 4, 0])*b-6*conjugate(F[3,
0, 1, 4, 0])*a:
B[2,3,0] := -6*conjugate(F[3, 0, 2, 3, 0])*a+(6*I)*conjugate(F
[3, 0, 2, 3, 0])*b+8*c-(8*I)*d:
B[3,2,0] := -6*F[3, 2, 3, 0, 0]*a+(6*I)*F[3, 2, 3, 0, 0]*b-12*c+
(12*I)*d:
B[4,1,0] := -6*F[3, 1, 3, 0, 0]*c+(6*I)*F[4, 1, 3, 0, 0]*b-6*F
[4, 1, 3, 0, 0]*a+(6*I)*F[3, 1, 3, 0, 0]*d:
B[5,0,0] := (6*I)*F[5, 0, 3, 0, 0]*b-6*F[5, 0, 3, 0, 0]*a+(2*I)*
F[5, 0, 2, 1, 0]*d-2*F[5, 0, 2, 1, 0]*c:

A[0,2,2] := 0:
A[1,1,2] := -conjugate(B[0, 0, 2]):
A[2,0,2] := -6*conjugate(A[0, 0, 3])-(1/2)*conjugate(B[1, 0, 2])
:
A[0,4,1] := 0:
A[1,3,1] := 0:
A[2,2,1] := 0:
A[3,1,1] := 0:
A[4,0,1] := 0:
A[0,6,0] := 0:
A[1,5,0] := 0:
A[2,4,0] := 0:
A[3,3,0] := 0:
A[4,2,0] := 0:
A[5,1,0] := 0:
A[6,0,0] := -F[6, 0, 1, 1, 0]*c+I*F[6, 0, 1, 1, 0]*d:

C[0,1,3] := 0:
C[1,0,3] := -2*conjugate(A[0, 0, 3]):
C[0,3,2] := 0:
C[1,2,2] := 0:
C[2,1,2] := 0:
C[3,0,2] := 0:
C[0,5,1] := 0:
C[1,4,1] := 0:
C[2,3,1] := 0:
```

```
C[3,2,1] := 0:
C[4,1,1] := 0:
C[5,0,1] := 0:
C[0,7,0] := 0:
C[1,6,0] := 0:
C[2,5,0] := 0:
C[3,4,0] := 0:
C[4,3,0] := 0:
C[5,2,0] := 0:
C[6,1,0] := 0:
C[7,0,0] := 2*F[7, 0, 0, 1, 0]*c-(2*I)*F[7, 0, 0, 1, 0]*d:

## ORDRE 6

F[3,1,3,0,0] := -(4/3)*F[4, 0, 2, 1, 0]-(2/3)*conjugate(F[4, 0,
2, 1, 0])-(14/3)*Rr-16/3:
#assume(Ww,real):
F[3,0,2,1,1] := I*Ww:
#assume(Vv,real):
F[4,0,0,2,1] := I*Vv:
F[3,0,0,2,1] := I*(-Rr-2):
F[4,0,1,2,0] := -(3*I)*F[3, 0, 0, 2, 1]-(3*I)*conjugate(F[3, 0,
0, 2, 1])+Rr:

Tt := -2:          ## IMPOSSIBLE Tt := -25/4:
Ss := 1/3:         ## IMPOSSIBLE Ss := 1:

F[6,0,0,1,0] := 0:
F[5,0,1,1,0] := 6*F[6, 0, 0, 1, 0]:

Uu := 0:
F[3,0,2,2,0] := -(45/2)*Uu*conjugate(Ss)+Rr-10*conjugate(Uu)-F
[4, 0, 1, 2, 0]+Tt^2+15*Uu-(135/2)*Ss^2*conjugate(Uu)+45*Ss*
conjugate(Uu)+(3*I)*Ss*conjugate(F[3, 0, 0, 2, 1])+3*Ss*
conjugate(F[4, 0, 1, 2, 0]):
F[5,0,0,1,1] := 3*Uu*conjugate(F[3, 0, 0, 2, 1]):
F[5,0,0,2,0] := -(9/2)*Uu*conjugate(Ss)+3*Uu:
F[3,0,1,3,0] := 2*Tt*Ss:
F[4,0,0,3,0] := (1/2)*Tt*Ss+3-(1/4)*F[3, 0, 1, 3, 0]+(1/4)*Tt-
(1/4)*Ss*conjugate(Tt):
F[3,0,1,2,1] := 2*Tt*F[3, 0, 0, 2, 1]:
F[3,0,0,4,0] := (3/4)*conjugate(Ss)*Ss-(3/2)*Ss+(3/2)*Ss^2+1/4:
F[3,0,0,3,1] := 2*Ss*F[3, 0, 0, 2, 1]-Ss*conjugate(F[3, 0, 0, 2,
1]):

rr := -32*d+(3/2)*conjugate(F[3, 0, 0, 2, 1])*c+20*conjugate(Uu)
*b-(1/4*I)*a*Rr*Tt+(1/4*I)*a*Rr*conjugate(Tt)+(3/4*I)*c*Rr*
conjugate(Ss)-(3/4*I)*c*Rr*Ss-(1/4*I)*e*Rr*F[3, 0, 0, 2, 1]+
(1/4*I)*e*Rr*conjugate(F[3, 0, 0, 2, 1])+(5*I)*a*conjugate(Tt)*F
[5, 0, 0, 2, 0]-(5*I)*a*Tt*conjugate(F[5, 0, 0, 2, 0])-(3*I)*c*
Tt*conjugate(F[4, 0, 0, 3, 0])+(1/2*I)*a*F[4, 0, 2, 1, 0]-(10*I)
*a*conjugate(F[5, 0, 0, 2, 0])+(3/4*I)*a*conjugate(F[3, 1, 3, 0,
0])-(3/4*I)*a*F[3, 1, 3, 0, 0]+(5/4*I)*a*conjugate(F[5, 0, 1, 1,
0])-(2*I)*a*conjugate(F[4, 0, 1, 2, 0])+(3*I)*c*conjugate(Tt)*F
[4, 0, 0, 3, 0]+2*a*conjugate(F[3, 0, 0, 2, 1])-10*b*conjugate(F
[5, 0, 0, 2, 0])+6*d*F[4, 0, 0, 3, 0]+2*a*F[3, 0, 0, 2, 1]+2*b*F
```

```
[4, 0, 1, 2, 0]+6*d*conjugate(F[4, 0, 0, 3, 0])-10*b*F[5, 0, 0,
2, 0]+2*b*conjugate(F[4, 0, 1, 2, 0])+(1/2*I)*c*F[3, 0, 2, 2, 0]
-(6*I)*c*conjugate(F[4, 0, 0, 3, 0])+(1/2*I)*c*conjugate(F[4, 0,
1, 2, 0])+(6*I)*c*F[4, 0, 0, 3, 0]-(1/2*I)*c*conjugate(F[3, 0,
2, 2, 0])-(1/2*I)*c*F[4, 0, 1, 2, 0]+(7*I)*c*Tt+(20*I)*conjugate
(Uu)*a-(1/4*I)*e*conjugate(F[3, 0, 2, 1, 1])-9*d*Tt-2*b*Rr-9*d*
conjugate(Tt)-(5/4)*b*Rr*Tt-(3/4)*d*Ss*Rr-(5/4)*b*Rr*conjugate
(Tt)-(3/4)*d*Rr*conjugate(Ss)-d*Tt*conjugate(Tt)+20*b*Uu-(1/2)*
d*Tt^2+(5/4)*d*Uu+(5/4)*d*conjugate(Uu)-(1/2)*d*conjugate(Tt)^2+
(1/2)*d*Rr+I*b*Tt*conjugate(F[3, 0, 0, 2, 1])+I*e*conjugate(Tt)*
F[4, 0, 0, 2, 1]+I*a*conjugate(Tt)*F[4, 0, 1, 2, 0]-I*b*
conjugate(Tt)*F[3, 0, 0, 2, 1]-I*e*Tt*conjugate(F[4, 0, 0, 2, 1]
)-I*a*Tt*conjugate(F[4, 0, 1, 2, 0])-5*b*conjugate(Tt)*F[5, 0,
0, 2, 0]-5*b*Tt*conjugate(F[5, 0, 0, 2, 0])+b*conjugate(Tt)*F[4,
0, 1, 2, 0]+b*Tt*conjugate(F[4, 0, 1, 2, 0])+3*d*F[4, 0, 0, 3,
0]*conjugate(Tt)+3*d*Tt*conjugate(F[4, 0, 0, 3, 0])+a*Tt*
conjugate(F[3, 0, 0, 2, 1])+a*conjugate(Tt)*F[3, 0, 0, 2, 1]+
(3/4)*b*F[3, 1, 3, 0, 0]-(3/2)*b*F[4, 0, 2, 1, 0]+(5/4)*b*F[5,
0, 1, 1, 0]+(1/2)*d*F[3, 0, 2, 2, 0]-(1/2)*d*F[4, 0, 1, 2, 0]+
(3/2)*c*F[3, 0, 0, 2, 1]-(3/2)*b*conjugate(F[4, 0, 2, 1, 0])+
(3/4)*b*conjugate(F[3, 1, 3, 0, 0])+(5/4)*b*conjugate(F[5, 0, 1,
1, 0])-(1/2)*d*conjugate(F[4, 0, 1, 2, 0])+(1/2)*d*conjugate(F
[3, 0, 2, 2, 0])-(7*I)*c*conjugate(Tt)-(20*I)*a*Uu+(1/2*I)*c*
conjugate(Tt)^2-(1/2*I)*c*Tt^2+(5/4*I)*c*conjugate(Uu)-(5/4*I)*
c*Uu+(10*I)*a*F[5, 0, 0, 2, 0]-(1/2*I)*a*conjugate(F[4, 0, 2, 1,
0])-(5/4*I)*a*F[5, 0, 1, 1, 0]+(2*I)*a*F[4, 0, 1, 2, 0]+(2*I)*b*
conjugate(F[3, 0, 0, 2, 1])-(2*I)*b*F[3, 0, 0, 2, 1]+(2*I)*e*F
[4, 0, 0, 2, 1]+(3/2*I)*d*conjugate(F[3, 0, 0, 2, 1])-(3/2*I)*d*
F[3, 0, 0, 2, 1]-(2*I)*e*conjugate(F[4, 0, 0, 2, 1])+(1/4*I)*e*F
[3, 0, 2, 1, 1]:

qq := -(3/2)*d*conjugate(F[4, 0, 0, 3, 0])+(1/2)*d*conjugate(Tt)
+(1/2)*d*Tt-(3/2)*d*F[4, 0, 0, 3, 0]+10*d+(3/2*I)*c*conjugate(F
[4, 0, 0, 3, 0])+(1/2*I)*a*conjugate(F[4, 0, 1, 2, 0])-(1/2*I)*
b*conjugate(F[3, 0, 0, 2, 1])-(1/2)*a*F[3, 0, 0, 2, 1]-(1/2*I)*
c*conjugate(Tt)-(1/2)*a*conjugate(F[3, 0, 0, 2, 1])+(1/2*I)*e*
conjugate(F[4, 0, 0, 2, 1])-(1/2)*b*conjugate(F[4, 0, 1, 2, 0])+
(5/2)*b*F[5, 0, 0, 2, 0]+(5/2)*b*conjugate(F[5, 0, 0, 2, 0])-
(1/2)*b*F[4, 0, 1, 2, 0]+b*Rr+(5/2*I)*a*conjugate(F[5, 0, 0, 2,
0])-(1/2*I)*e*F[4, 0, 0, 2, 1]-(5/2*I)*a*F[5, 0, 0, 2, 0]+(1/2*
I)*c*Tt-(3/2*I)*c*F[4, 0, 0, 3, 0]+(1/2*I)*b*F[3, 0, 0, 2, 1]-
(1/2*I)*a*F[4, 0, 1, 2, 0]:

pp := -(3/2*I)*d*F[4, 0, 0, 3, 0]+(1/2*I)*b*conjugate(F[4, 0, 1,
2, 0])+(1/2)*a*conjugate(F[4, 0, 1, 2, 0])+(1/2)*a*F[4, 0, 1, 2,
0]+(5/2)*a*F[5, 0, 0, 2, 0]+(5/2)*a*conjugate(F[5, 0, 0, 2, 0])-
(5/2*I)*b*conjugate(F[5, 0, 0, 2, 0])+(3/2*I)*d*conjugate(F[4,
0, 0, 3, 0])-(1/2*I)*b*F[4, 0, 1, 2, 0]-(1/2)*b*F[3, 0, 0, 2, 1]
-(1/2)*b*conjugate(F[3, 0, 0, 2, 1])+(5/2*I)*b*F[5, 0, 0, 2, 0]+
(1/2*I)*a*conjugate(F[3, 0, 0, 2, 1])-(1/2*I)*a*F[3, 0, 0, 2, 1]
-6*c+(3/2)*c*conjugate(F[4, 0, 0, 3, 0])+(3/2)*c*F[4, 0, 0, 3,
0]+(1/2)*e*F[4, 0, 0, 2, 1]+(1/2)*e*conjugate(F[4, 0, 0, 2, 1]):

B[1,0,1] := -4*Rr*c-4*conjugate(F[3, 0, 0, 2, 1])*d+4*conjugate
(F[4, 0, 1, 2, 0])*c+(4*I)*conjugate(F[4, 0, 1, 2, 0])*d-(10*I)*
conjugate(F[5, 0, 1, 1, 0])*b+(4*I)*c*conjugate(F[3, 0, 0, 2, 1]
```

```
)+(4*I)*conjugate(F[4, 0, 2, 1, 0])*b-(4*I)*Rr*d+10*conjugate
(Uu)*c+10*conjugate(F[5, 0, 1, 1, 0])*a+4*conjugate(F[4, 0, 2,
1, 0])*a-(10*I)*d*conjugate(Uu):

A[0,0,2] := -(1/4)*B[1, 0, 1]+conjugate(F[3, 0, 0, 2, 1])*d-I*
conjugate(F[3, 0, 0, 2, 1])*c-(10*I)*conjugate(Uu)*b+10*
conjugate(Uu)*a:

B[2,0,1] := 4*Rr*pp-(8/3)*A[1, 0, 2]-8*Rr*c+(4/3)*conjugate(A[1,
0, 2])-I*F[3, 1, 3, 0, 0]*d-F[3, 1, 3, 0, 0]*c-4*F[4, 0, 3, 0,
0]*a-4*a*conjugate(F[4, 0, 3, 0, 0])-conjugate(F[3, 1, 3, 0, 0])
*c+(4*I)*conjugate(F[4, 0, 3, 0, 0])*b+I*conjugate(F[3, 1, 3, 0,
0])*d-(4*I)*F[4, 0, 3, 0, 0]*b:

B[0,2,1] := 10*Uu*a+(10*I)*Uu*b+6*conjugate(F[3, 0, 0, 2, 1])*b+
(6*I)*conjugate(F[3, 0, 0, 2, 1])*a+6*pp-(6*I)*qq:
B[1,1,1] := 2*conjugate(B[1, 0, 1])+12*conjugate(A[0, 0, 2]):
B[0,4,0] := (6*I)*conjugate(F[3, 0, 0, 4, 0])*b-6*conjugate(F[3,
0, 0, 4, 0])*a:
B[1,3,0] := (6*I)*d*conjugate(Ss)-6*c*conjugate(Ss)+(6*I)*
conjugate(F[3, 0, 1, 3, 0])*b-6*conjugate(F[3, 0, 1, 3, 0])*a:
B[2,2,0] := (6*I)*conjugate(F[3, 0, 2, 2, 0])*b-6*conjugate(F[3,
0, 2, 2, 0])*a+(6*I)*d*conjugate(Tt)-6*conjugate(Tt)*c:
B[3,1,0] := -6*Rr*c+(6*I)*F[3, 1, 3, 0, 0]*b-6*F[3, 1, 3, 0, 0]*
a+(6*I)*Rr*d:
B[4,0,0] := -4*conjugate(B[0, 0, 2])+(6*I)*F[4, 0, 3, 0, 0]*b-2*
F[4, 0, 2, 1, 0]*c+(2*I)*F[4, 0, 2, 1, 0]*d-6*F[4, 0, 3, 0, 0]*
a:

C[0,0,3] := (1/3)*conjugate(A[1,0,2])+(1/3)*A[1,0,2]:

A[0,1,2] := -conjugate(A[0, 0, 2]):
A[0,3,1] := 0:
A[1,2,1] := 0:
A[2,1,1] := 0:
A[3,0,1] := 2*conjugate(B[0,0,2]):
A[0,5,0] := 0:
A[1,4,0] := 0:
A[2,3,0] := 0:
A[3,2,0] := 0:
A[4,1,0] := (5*I)*Uu*d-5*Uu*c:
A[5,0,0] := -F[5, 0, 1, 1, 0]*c+2*Uu*pp-4*Uu*c+I*F[5, 0, 1, 1,
0]*d+(4*I)*Uu*d-(2*I)*Uu*qq:

C[0,2,2] := 0:
C[1,1,2] := 0:
C[2,0,2] := conjugate(B[0,0,2]):
C[0,4,1] := 0:
C[1,3,1] := 0:
C[2,2,1] := 0:
C[3,1,1] := 0:
C[4,0,1] := 0:
C[0,6,0] := 0:
C[1,5,0] := 0:
C[2,4,0] := 0:
C[3,3,0] := 0:
```

```
C[4,2,0] := 0:
C[5,1,0] := 0:
C[6,0,0] := -(2*I)*F[6, 0, 0, 1, 0]*d+2*F[6, 0, 0, 1, 0]*c:

## RESOLUTION DE 2 ISOTROPIES A L'ORDRE 5

mm := 2*d-(3/2)*d*Ss-(3/2)*d*conjugate(Ss)+(1/2*I)*a*conjugate
(Tt)-(1/2*I)*a*Tt-(1/2)*b*conjugate(Tt)-(1/2)*b*Tt-(3/2*I)*c*Ss+
(3/2*I)*c*conjugate(Ss)-(1/2*I)*e*F[3, 0, 0, 2, 1]+(1/2*I)*e*
conjugate(F[3, 0, 0, 2, 1]):

ll := (3/2*I)*d*Ss-(3/2*I)*d*conjugate(Ss)-(1/2)*a*conjugate(Tt)
-(1/2)*a*Tt-(1/2*I)*b*conjugate(Tt)+(1/2*I)*b*Tt-(3/2)*c*Ss-2*c-
(3/2)*c*conjugate(Ss)-(1/2)*e*conjugate(F[3, 0, 0, 2, 1])-(1/2)*
e*F[3, 0, 0, 2, 1]:

## ABREVIATIONS

F[5,0,0,1,0] := Uu:

F[3,0,1,2,0] := Tt:

F[3,0,0,3,0] := Ss:

## HYPOTHESE DE BRANCHE ET NORMALISATIONS SUPPLEMENTAIRES

#assume(Rr,real):
F[3,0,2,1,0] := Rr:
F[4,0,0,2,0] := 0:
F[3,0,0,2,0] := 1:

## PRENORMALISATIONS JUSQU'A L'ORDRE 5 AVANT BRANCHEMENT PAR F
[3,0,0,2,0]

## ORDRE 5

B[2,0,0] := -2*F[3, 0, 0, 2, 0]*pp+(12*I)*conjugate(F[3, 0, 0,
2, 0])^2*d+3*conjugate(F[3, 0, 2, 1, 0])*a-I*F[3, 0, 1, 2, 0]*
d+3*conjugate(F[3, 0, 1, 2, 0])*c-(6*I)*conjugate(F[3, 0, 0, 2,
0])*qq-6*conjugate(F[3, 0, 0, 2, 0])*pp-(4*I)*F[3, 0, 0, 2, 0]
^2*d+12*conjugate(F[3, 0, 0, 2, 0])^2*c+(2*I)*F[3, 0, 0, 2, 0]*
qq+F[3, 0, 2, 1, 0]*a+(3*I)*conjugate(F[3, 0, 2, 1, 0])*b-I*rr+F
[3, 0, 1, 2, 0]*c-I*F[3, 0, 2, 1, 0]*b+4*F[3, 0, 0, 2, 0]^2*c+
(3*I)*conjugate(F[3, 0, 1, 2, 0])*d:
B[0,0,1] := 10*conjugate(F[5, 0, 0, 1, 0])*a+(4*I)*conjugate(F
[4, 0, 0, 2, 0])*d+4*conjugate(F[4, 0, 0, 2, 0])*c-(10*I)*
conjugate(F[5, 0, 0, 1, 0])*b:

B[0,1,1] := -(1/2)*conjugate(B[2, 0, 0])-(1/2)*B[2, 0, 0]:
B[0,3,0] := (6*I)*conjugate(F[3, 0, 0, 3, 0])*b-6*conjugate(F[3,
0, 0, 3, 0])*a:
B[1,2,0] := -6*conjugate(F[3, 0, 0, 2, 0])*c+(6*I)*conjugate(F
[3, 0, 0, 2, 0])*d+(6*I)*conjugate(F[3, 0, 1, 2, 0])*b-6*
conjugate(F[3, 0, 1, 2, 0])*a:
B[2,1,0] := -5*conjugate(B[0, 0, 1])+(6*I)*conjugate(F[3, 0, 2,
1, 0])*b-6*conjugate(F[3, 0, 2, 1, 0])*a:
```

```
B[3,0,0] := -2*conjugate(B[1, 0, 1])-2*F[3, 0, 2, 1, 0]*c+(2*I)*
F[3, 0, 2, 1, 0]*d-8*conjugate(A[0, 0, 2]):

A[0,2,1] := 0:
A[1,1,1] := conjugate(B[0,0,1]):
A[2,0,1] := 4*conjugate(A[0,0,2])+(1/2)*conjugate(B[1,0,1]):
A[0,4,0] := 0:
A[1,3,0] := 0:
A[2,2,0] := 0:
A[3,1,0] := 0:
A[4,0,0] := 0:

C[0,1,2] := 0:
C[1,0,2] := 2*conjugate(A[0, 0, 2]):
C[0,3,1] := 0:
C[1,2,1] := 0:
C[2,1,1] := 0:
C[3,0,1] := 0:
C[0,5,0] := 0:
C[1,4,0] := 0:
C[2,3,0] := 0:
C[3,2,0] := 0:
C[4,1,0] := 0:
C[5,0,0] := 2*F[5, 0, 0, 1, 0]*c-(2*I)*F[5, 0, 0, 1, 0]*d:

## ORDRE 4

B[1,0,0] := -2*pp-(2*I)*qq+4*conjugate(F[3, 0, 0, 2, 0])*c+(4*I)
*conjugate(F[3, 0, 0, 2, 0])*d:

B[0,2,0] := -6*conjugate(F[3, 0, 0, 2, 0])*a+(6*I)*conjugate(F
[3, 0, 0, 2, 0])*b-c+I*d:
B[1,1,0] := -6*pp+(6*I)*qq-2*conjugate(B[1, 0, 0]):

A[0,1,1] := pp-I*qq:
A[1,0,1] := -(1/4)*B[2, 0, 0]-(1/4)*conjugate(B[2, 0, 0])+I*rr:
A[0,3,0] := 0:
A[1,2,0] := 0:
A[2,1,0] := 0:
A[3,0,0] := - conjugate(B[0, 0, 1]):

C[0,2,1] := 0:
C[1,1,1] := 0:
C[2,0,1] := -conjugate(B[0, 0, 1]):
C[0,4,0] := 0:
C[1,3,0] := 0:
C[2,2,0] := 0:
C[3,1,0] := 0:
C[4,0,0] := 0:

## ORDRE 3

B[0,1,0] := (2*I)*mm:

A[0,2,0] := 0:
A[1,1,0] := -c+I*d:
```

```
A[2,0,0] := -2*pp+(2*I)*qq-(1/2)*conjugate(B[1, 0, 0]):

C[0,1,1] := 0:
C[1,0,1] := 2*A[2, 0, 0]+2*pp-(2*I)*qq+conjugate(B[1, 0, 0]):
C[0,3,0] := 0:
C[1,2,0] := 0:
C[2,1,0] := 0:
C[3,0,0] := 0:

## ORDRE 2

A[0,1,0] := -a+I*b:

C[0,0,1] := 2*II:
C[0,2,0] := 0:
C[1,1,0] := 0:
C[2,0,0] := c-I*d:

## ORDRE 1

C[1,0,0] := 2*a-(2*I)*b:
C[0,1,0] := 0:

## CALCULS

FF :=

z*zb

+ (1/2)*zb^2*s+(1/2)*z^2*sb

+ z*zb*s*sb

+ (1/2)*s*sb^2*z^2+(1/2)*zb^2*s^2*sb
+ conjugate(F[3, 0, 0, 2, 0])*s^2*zb^3 + F[3, 0, 0, 2, 0]*z^3*
sb^2

+ z*zb*s^2*sb^2
+ F[5,0,0,1,0]*z^5*sb
+ conjugate(F[5,0,0,1,0])*s*zb^5
+ F[4,0,0,2,0]*z^4*sb^2
+ conjugate(F[4,0,0,2,0])*s^2*zb^4
+ F[3,0,2,1,0]*z^3*zb^2*sb
+ conjugate(F[3,0,2,1,0])*z^2*s*zb^3
+ F[3,0,1,2,0]*z^3*zb*sb^2
+ conjugate(F[3,0,1,2,0])*z*s^2*zb^3
+ F[3,0,0,3,0]*z^3*sb^3
+ conjugate(F[3,0,0,3,0])*s^3*zb^3
+ 3*conjugate(F[3,0,0,2,0])*z*s^2*zb^2*sb
+ 3*F[3,0,0,2,0]*z^2*s*zb*sb^2

## ORDRES 7, 8, 9, 10, 11 : NON IMPRIMES

:

Fz  := diff(FF, z):
```

```
Fzb := diff(FF, zb):
Fs  := diff(FF, s):
Fsb := diff(FF, sb):
Fv  := diff(FF, v):



w  := FF + l*v:
wb := FF - l*v:



## VARIABLES D'ISOTROPIE

#ll:=0: mm:=0: pp:=0: qq:=0: rr:=0:

#assume(ll,real):
#assume(mm,real):
#assume(pp,real):
#assume(qq,real):
#assume(rr,real):

A[1,0,0] := ll + l*mm:
A[0,0,1] := pp + l*qq:
C[0,0,2] :=     l*rr:


## VARIABLES DE TRANSITIVITE

#a:=0: b:=0: c:=0: d:=0: e:=0:

assume(a,real):
assume(b,real):
assume(c,real):
assume(d,real):
assume(e,real):

A[0,0,0] := a + l*b:
B[0,0,0] := c + l*d:
C[0,0,0] :=    l*e:



AA := add(add(add(A[h,i,l]*z^h*s^i*w^l,
                h=0..ordre-1-i-2*l), i=0..ordre-1-2*l), l=0..
(ordre-1)/2):


AAb := add(add(add(conjugate(A[h,i,l])*zb^h*sb^i*wb^l,
                 h=0..ordre-1-i-2*l), i=0..ordre-1-2*l), l=0..
(ordre-1)/2):
```

```
BB := add(add(add(B[h,i,l]*z^h*s^i*w^l,
                h=0..ordre-2-i-2*l), i=0..ordre-2-2*l), l=0..
(ordre-2)/2):


BBb := add(add(add(conjugate(B[h,i,l])*zb^h*sb^i*wb^l,
                 h=0..ordre-2-i-2*l), i=0..ordre-2-2*l), l=0..
(ordre-2)/2):



CC := add(add(add(C[h,i,l]*z^h*s^i*w^l,
                h=0..ordre-i-2*l), i=0..ordre-2*l), l=0..
ordre/2):

CCb := add(add(add(conjugate(C[h,i,l])*zb^h*sb^i*wb^l,
                 h=0..ordre-i-2*l), i=0..ordre-2*l), l=0..
ordre/2):


## PROCEDURE DE MULTIPLICATION TRONQUEE

MT := proc(Expression1, Expression2)

mtaylor(expand(mtaylor(Expression1*Expression2, [z,s,zb,sb,v],
ordre+1, [1,1,1,1,2]))
                                                , [z,s,zb,sb,v],
ordre+1, [1,1,1,1,2])
end proc:


eqdef := mtaylor( - CC/2  + MT(AA,Fz)   + MT(BB,Fs)   + MT(CC,
Fv)/(2*l) - CCb/2 + MT(AAb,Fzb) + MT(BBb,Fsb) - MT(CCb,Fv)/(2*
l), [z,s,zb,sb,v], ordre+1, [1,1,1,1,2]):


#eqdef := mtaylor( - CC/2  + AA*Fz   + BB*Fs   + CC*Fv/(2*l) -
CCb/2 + AAb*Fzb + BBb*Fsb - CCb*Fv/(2*l), [z,s,zb,sb,v],
ordre+1, [1,1,1,1,2]):


## TOUTES LES EQUATIONS COMPLEXES

printlevel := 4:
for m from 0 to ordre do
for l from 0 to m/2 do
for k from 0 to m-2*l do
for j from 0 to m-k-2*l do
for i from 0 to m-j-k-2*l do

EEq||m[m-i-j-k-2*l,i,j,k,l] :=
expand(expand(expand(coeftayl(eqdef, [z,s,zb,sb,v]=[0,0,0,0,0],
[m-i-j-k-2*l,i,j,k,l]))));

od; od; od; od; od;
```

```
## SELECTIONNER CELLES QUI SONT NON NULLES

printlevel := 6:
for m from 0 to ordre do
for l from 0 to m/2 do
for k from 0 to m-2*l do
for j from 0 to m-k-2*l do
for i from 0 to m-j-k-2*l do

if EEq||m[m-i-j-k-2*l,i,j,k,l] <> 0 then
   Eq||m[m-i-j-k-2*l,i,j,k,l]:= mtaylor(EEq||m[m-i-j-k-2*l,i,j,
k,l], [a,b,c,d,e]); end if;
#   Eq||m[m-i-j-k-2*l,i,j,k,l] := subs({a=0,b=0,c=0,d=0,e=0},
EEq||m[m-i-j-k-2*l,i,j,k,l]); end if;

od; od; od; od; od;
```

$$ordre := 8 \tag{1}$$

```
>

## EXTRAIRE COEFFICIENTS DE a, b, c, d, e

printlevel := 6:
for m from 0 to ordre do
for l from 0 to m/2 do
for k from 0 to m-2*l do
for j from 0 to m-k-2*l do
for i from 0 to m-j-k-2*l do

if expand(expand(diff(EEq||m[m-i-j-k-2*l,i,j,k,l], a))) <> 0
then
  Eqa||m[m-i-j-k-2*l,i,j,k,l] := expand(expand(diff(EEq||m[m-i-
j-k-2*l,i,j,k,l], a))); end if;

if expand(expand(diff(EEq||m[m-i-j-k-2*l,i,j,k,l], b))) <> 0
then
  Eqb||m[m-i-j-k-2*l,i,j,k,l] := expand(expand(diff(EEq||m[m-i-
j-k-2*l,i,j,k,l], b))); end if;

if expand(expand(diff(EEq||m[m-i-j-k-2*l,i,j,k,l], c))) <> 0
then
  Eqc||m[m-i-j-k-2*l,i,j,k,l] := expand(expand(diff(EEq||m[m-i-
j-k-2*l,i,j,k,l], c))); end if;

if expand(expand(diff(EEq||m[m-i-j-k-2*l,i,j,k,l], d))) <> 0
then
  Eqd||m[m-i-j-k-2*l,i,j,k,l] := expand(expand(diff(EEq||m[m-i-
j-k-2*l,i,j,k,l], d))); end if;

if expand(expand(diff(EEq||m[m-i-j-k-2*l,i,j,k,l], e))) <> 0
then
  Eqe||m[m-i-j-k-2*l,i,j,k,l] := expand(expand(diff(EEq||m[m-i-
```

```
j-k-2*l,i,j,k,l], e))); end if;

od; od; od; od; od;
```

```
>

## Eq[h,i,0,0,l]

printlevel := 3:
for l from 0 to ordre/2 do
for i from 0 to ordre-2*l do

if expand(EEq||ordre[ordre-i-2*l,i,0,0,l]) <> 0 then
Eq||ordre[ordre-i-2*l,i,0,0,l] := expand(EEq||ordre[ordre-i-2*l,
i,0,0,l]); end if;

od; od;
```

```
>

## Eq[h,i,1,0,l]

for l from 0 to (ordre-1)/2 do
for i from 0 to ordre-1-2*l do

if expand(EEq||ordre[ordre-1-i-2*l,i,1,0,l]) <> 0 then
Eq||ordre[ordre-1-i-2*l,i,1,0,l] := expand(EEq||ordre[ordre-1-
i-2*l,i,1,0,l]); end if;

od; od;
```

```
>

## Eq[h,i,2,0,l]

for l from 0 to (ordre-2)/2 do
for i from 0 to ordre-2-2*l do

if expand(EEq||ordre[ordre-2-i-2*l,i,2,0,l]) <> 0 then
Eq||ordre[ordre-2-i-2*l,i,2,0,l] := expand(EEq||ordre[ordre-2-
i-2*l,i,2,0,l]); end if;

od; od;
```

```
> l1 := (ordre - (0+1+3+0))/2;
  for l from floor(l1) to l1 do
  if l1-floor(l1) = 0
  and expand(EEq||ordre[0,1,3,0,l]) <> 0 then
  vEq||ordre[0,1,3,0,l] := expand(EEq||ordre[0,1,3,0,l]); end if;
  od;
```

```
> l2 := (ordre - (0+1+4+0))/2;
  for l from floor(l2) to l2 do
  if l2-floor(l2) = 0
  and expand(EEq||ordre[0,1,4,0,l]) <> 0 then
  vEq||ordre[0,1,4,0,l] := expand(EEq||ordre[0,1,4,0,l]); end if;
  od;
```

```
> l3 := (ordre - (1+1+3+0))/2;
  for l from floor(l3) to l3 do
  if l3-floor(l3) = 0
  and expand(EEq||ordre[1,1,3,0,l3]) <> 0 then
  vEq||ordre[1,1,3,0,l3] := expand(EEq||ordre[1,1,3,0,l3]); end
  if; od;
```

```
> l4 := (ordre - (1+1+4+0))/2;
  for l from floor(l4) to l4 do
  if l4-floor(l4) = 0
  and expand(EEq||ordre[1,1,4,0,l4]) <> 0 then
  vEq||ordre[1,1,4,0,l4] := expand(EEq||ordre[1,1,4,0,l4]); end
  if; od;
```

```
> l5 := (ordre - (3+0+3+0))/2;
  for l from floor(l5) to l5 do
  if l5-floor(l5) = 0
  and expand(EEq||ordre[3,0,3,0,l5]) <> 0 then
  vEq||ordre[3,0,3,0,l5] := expand(EEq||ordre[3,0,3,0,l5]); end
  if; od;
```