```
> restart: with(linalg): printlevel := 0: with(codegen):
```
Warning, the protected names norm and trace have been redefined and unprotected

Warning, the protected name MathML has been redefined and unprotected

Representation of the nullspace, X, Y, Z, W are the directions in E space
```
> X := vector(9); Y := vector(9); Z := vector(9); W := vector(9);
```
$$X := \text{array}(1 .. 9, [\ ])$$
$$Y := \text{array}(1 .. 9, [\ ])$$
$$Z := \text{array}(1 .. 9, [\ ])$$
$$W := \text{array}(1 .. 9, [\ ])$$

Possible solution with parameters x, y, z
```
> E := matrix(3,3, evalm(x * X + y * Y + z * Z + W));
```
$$E := \begin{bmatrix} x\,X_1 + y\,Y_1 + z\,Z_1 + W_1 & x\,X_2 + y\,Y_2 + z\,Z_2 + W_2 & x\,X_3 + y\,Y_3 + z\,Z_3 + W_3 \\ x\,X_4 + y\,Y_4 + z\,Z_4 + W_4 & x\,X_5 + y\,Y_5 + z\,Z_5 + W_5 & x\,X_6 + y\,Y_6 + z\,Z_6 + W_6 \\ x\,X_7 + y\,Y_7 + z\,Z_7 + W_7 & x\,X_8 + y\,Y_8 + z\,Z_8 + W_8 & x\,X_9 + y\,Y_9 + z\,Z_9 + W_9 \end{bmatrix}$$

First constraint, det(E) = 0
```
> d := det(E):
```
second constraint 2 EE^TE - trace(EE^T)E = 0
```
> G := evalm(2 * E &* transpose(E) &* E – trace(E &* transpose(E)) *
  E):
```
helpers with the combination of powers of x,y and indices to go through G
```
> powers := [[3,0,0], [0,3,0], [2,1,0], [1,2,0], [2,0,1], [2,0,0],
  [0,2,1], [0,2,0], [1,1,1], [1,1,0], [1,0,2], [1,0,1], [1,0,0],
  [0,1,2], [0,1,1], [0,1,0], [0,0,3], [0,0,2], [0,0,1], [0,0,0]];
```
$powers := [[3,0,0],[0,3,0],[2,1,0],[1,2,0],[2,0,1],[2,0,0],[0,2,1],[0,2,0],[1,1,1],$
$\quad [1,1,0],[1,0,2],[1,0,1],[1,0,0],[0,1,2],[0,1,1],[0,1,0],[0,0,3],[0,0,2],[0,0,1],$
$\quad [0,0,0]]$

```
> R := matrix(10,20):
```
Go through all elements of G and extract the coefficient for the monomial given by powers[i]
```
> for i from 1 to 3 do
  for j from 1 to 3 do
  for k from 1 to 20 do
    R[(i-1)*3 + j,k] := coeftayl(G[i,j], [x,y,z] = [0,0,0],
  powers[k]):
  end do;
  end do;
  end do;
```
also go through d and extract the same coefficients
```
> for i from 1 to 20 do
    R[10,i] := coeftayl(d, [x,y,z] = [0,0,0], powers[i]):
  end do;
```

```
> evalm(R):
> C(R,optimized):
    t1 = X[0]*X[0];
    t2 = X[1]*X[1];
    t3 = X[2]*X[2];
    t4 = t1+t2+t3;
    t9 = X[0]*X[3]+X[1]*X[4]+X[2]*X[5];
    t14 = X[0]*X[6]+X[1]*X[7]+X[2]*X[8];
    t16 = X[3]*X[3];
    t17 = X[4]*X[4];
    t18 = X[5]*X[5];
    t19 = X[6]*X[6];
    t20 = X[7]*X[7];
    t21 = X[8]*X[8];
    t22 = -t1-t2-t3-t16-t17-t18-t19-t20-t21;
    t26 = Y[0]*Y[0];
    t27 = Y[1]*Y[1];
    t28 = Y[2]*Y[2];
    t29 = t26+t27+t28;
    t34 = Y[0]*Y[3]+Y[1]*Y[4]+Y[2]*Y[5];
    t39 = Y[0]*Y[6]+Y[1]*Y[7]+Y[2]*Y[8];
    t41 = Y[3]*Y[3];
    t42 = Y[4]*Y[4];
    t43 = Y[5]*Y[5];
    t44 = Y[6]*Y[6];
    t45 = Y[7]*Y[7];
    t46 = Y[8]*Y[8];
    t47 = -t26-t27-t28-t41-t42-t43-t44-t45-t46;
    t52 = Y[0]*X[0];
    t53 = Y[1]*X[1];
    t54 = Y[2]*X[2];
    t55 = t52+t53+t54;
    t65 = X[0]*Y[3]+Y[0]*X[3]+X[1]*Y[4]+Y[1]*X[4]+X[2]*Y[5]+Y[2]*X[5];
    t75 = X[0]*Y[6]+Y[0]*X[6]+X[1]*Y[7]+Y[1]*X[7]+X[2]*Y[8]+Y[2]*X[8];
    t80 = Y[3]*X[3];
    t81 = Y[4]*X[4];
    t82 = Y[5]*X[5];
    t83 = Y[6]*X[6];
    t84 = Y[7]*X[7];
    t85 = Y[8]*X[8];
    t86 = -t52-t53-t54-t80-t81-t82-t83-t84-t85;
    t103 = Z[0]*X[0];
    t104 = Z[1]*X[1];
    t105 = Z[2]*X[2];
    t106 = t103+t104+t105;
    t116 = X[0]*Z[3]+Z[0]*X[3]+X[1]*Z[4]+Z[1]*X[4]+X[2]*Z[5]+Z[2]*X[5];
    t126 = X[0]*Z[6]+Z[0]*X[6]+X[1]*Z[7]+Z[1]*X[7]+X[2]*Z[8]+Z[2]*X[8];
    t131 = Z[3]*X[3];
    t132 = Z[4]*X[4];
    t133 = Z[5]*X[5];
    t134 = Z[6]*X[6];
    t135 = Z[7]*X[7];
    t136 = Z[8]*X[8];
    t137 = -t103-t104-t105-t131-t132-t133-t134-t135-t136;
    t141 = W[0]*X[0];
    t142 = W[1]*X[1];
    t143 = W[2]*X[2];
```

```
        t144 = t141+t142+t143;
        t154 = X[0]*W[3]+W[0]*X[3]+X[1]*W[4]+W[1]*X[4]+X[2]*W[5]+W[2]*X[5];
        t164 = X[0]*W[6]+W[0]*X[6]+X[1]*W[7]+W[1]*X[7]+X[2]*W[8]+W[2]*X[8];
        t169 = W[3]*X[3];
        t170 = W[4]*X[4];
        t171 = W[5]*X[5];
        t172 = W[6]*X[6];
        t173 = W[7]*X[7];
        t174 = W[8]*X[8];
        t175 = -t141-t142-t143-t169-t170-t171-t172-t173-t174;
        t179 = Z[0]*Y[0];
        t180 = Z[1]*Y[1];
        t181 = Z[2]*Y[2];
        t182 = t179+t180+t181;
        t192 = Y[0]*Z[3]+Z[0]*Y[3]+Y[1]*Z[4]+Z[1]*Y[4]+Y[2]*Z[5]+Z[2]*Y[5];
        t202 = Y[0]*Z[6]+Z[0]*Y[6]+Y[1]*Z[7]+Z[1]*Y[7]+Y[2]*Z[8]+Z[2]*Y[8];
        t207 = Z[3]*Y[3];
        t208 = Z[4]*Y[4];
        t209 = Z[5]*Y[5];
        t210 = Z[6]*Y[6];
        t211 = Z[7]*Y[7];
        t212 = Z[8]*Y[8];
        t213 = -t179-t180-t181-t207-t208-t209-t210-t211-t212;
        t217 = W[0]*Y[0];
        t218 = W[1]*Y[1];
        t219 = W[2]*Y[2];
        t220 = t217+t218+t219;
        t230 = Y[0]*W[3]+W[0]*Y[3]+Y[1]*W[4]+W[1]*Y[4]+Y[2]*W[5]+W[2]*Y[5];
        t240 = Y[0]*W[6]+W[0]*Y[6]+Y[1]*W[7]+W[1]*Y[7]+Y[2]*W[8]+W[2]*Y[8];
        t245 = W[3]*Y[3];
        t246 = W[4]*Y[4];
        t247 = W[5]*Y[5];
        t248 = W[6]*Y[6];
        t249 = W[7]*Y[7];
        t250 = W[8]*Y[8];
        t251 = -t217-t218-t219-t245-t246-t247-t248-t249-t250;
        t275 = 4.0*t55*Z[0]+4.0*t106*Y[0]+4.0*t182*X[0]+2.0*t65*Z[3]+2.0*t116*Y
[3]+2.0*t192*X[3]+2.0*t75*Z[6]+2.0*t126*Y[6]+2.0*t202*X[6]+2.0*t86*Z[0]+2.0*
t137*Y[0]+2.0*t213*X[0];
        t297 = 4.0*t55*W[0]+4.0*t144*Y[0]+4.0*t220*X[0]+2.0*t65*W[3]+2.0*t154*Y
[3]+2.0*t230*X[3]+2.0*t75*W[6]+2.0*t164*Y[6]+2.0*t240*X[6]+2.0*t86*W[0]+2.0*
t175*Y[0]+2.0*t251*X[0];
        t300 = Z[0]*Z[0];
        t301 = Z[1]*Z[1];
        t302 = Z[2]*Z[2];
        t303 = t300+t301+t302;
        t310 = Z[0]*Z[3]+Z[1]*Z[4]+Z[2]*Z[5];
        t317 = Z[0]*Z[6]+Z[1]*Z[7]+Z[2]*Z[8];
        t320 = Z[3]*Z[3];
        t321 = Z[4]*Z[4];
        t322 = Z[5]*Z[5];
        t323 = Z[6]*Z[6];
        t324 = Z[7]*Z[7];
        t325 = Z[8]*Z[8];
        t326 = -t300-t301-t302-t320-t321-t322-t323-t324-t325;
        t334 = W[0]*Z[0];
        t335 = W[1]*Z[1];
        t336 = W[2]*Z[2];
```

```
      t337 = t334+t335+t336;
      t350 = Z[0]*W[3]+W[0]*Z[3]+Z[1]*W[4]+W[1]*Z[4]+Z[2]*W[5]+W[2]*Z[5];
      t363 = Z[0]*W[6]+W[0]*Z[6]+Z[1]*W[7]+W[1]*Z[7]+Z[2]*W[8]+W[2]*Z[8];
      t368 = W[3]*Z[3];
      t369 = W[4]*Z[4];
      t370 = W[5]*Z[5];
      t371 = W[6]*Z[6];
      t372 = W[7]*Z[7];
      t373 = W[8]*Z[8];
      t374 = -t334-t335-t336-t368-t369-t370-t371-t372-t373;
      t376 = 4.0*t106*W[0]+4.0*t144*Z[0]+4.0*t337*X[0]+2.0*t116*W[3]+2.0*t154*Z
[3]+2.0*t350*X[3]+2.0*t126*W[6]+2.0*t164*Z[6]+2.0*t363*X[6]+2.0*t137*W[0]+2.0*
t175*Z[0]+2.0*t374*X[0];
      t379 = W[0]*W[0];
      t380 = W[1]*W[1];
      t381 = W[2]*W[2];
      t382 = t379+t380+t381;
      t390 = W[0]*W[3]+W[1]*W[4]+W[2]*W[5];
      t398 = W[0]*W[6]+W[1]*W[7]+W[2]*W[8];
      t402 = W[3]*W[3];
      t403 = W[4]*W[4];
      t404 = W[5]*W[5];
      t405 = W[6]*W[6];
      t406 = W[7]*W[7];
      t407 = W[8]*W[8];
      t408 = -t379-t380-t381-t402-t403-t404-t405-t406-t407;
      t445 = 4.0*t182*W[0]+4.0*t220*Z[0]+4.0*t337*Y[0]+2.0*t192*W[3]+2.0*t230*Z
[3]+2.0*t350*Y[3]+2.0*t202*W[6]+2.0*t240*Z[6]+2.0*t363*Y[6]+2.0*t213*W[0]+2.0*
t251*Z[0]+2.0*t374*Y[0];
      t614 = 4.0*t55*Z[1]+4.0*t106*Y[1]+4.0*t182*X[1]+2.0*t65*Z[4]+2.0*t116*Y
[4]+2.0*t192*X[4]+2.0*t75*Z[7]+2.0*t126*Y[7]+2.0*t202*X[7]+2.0*t86*Z[1]+2.0*
t137*Y[1]+2.0*t213*X[1];
      t636 = 4.0*t55*W[1]+4.0*t144*Y[1]+4.0*t220*X[1]+2.0*t65*W[4]+2.0*t154*Y
[4]+2.0*t230*X[4]+2.0*t75*W[7]+2.0*t164*Y[7]+2.0*t240*X[7]+2.0*t86*W[1]+2.0*
t175*Y[1]+2.0*t251*X[1];
      t671 = 4.0*t106*W[1]+4.0*t144*Z[1]+4.0*t337*X[1]+2.0*t116*W[4]+2.0*t154*Z
[4]+2.0*t350*X[4]+2.0*t126*W[7]+2.0*t164*Z[7]+2.0*t363*X[7]+2.0*t137*W[1]+2.0*
t175*Z[1]+2.0*t374*X[1];
      t721 = 4.0*t182*W[1]+4.0*t220*Z[1]+4.0*t337*Y[1]+2.0*t192*W[4]+2.0*t230*Z
[4]+2.0*t350*Y[4]+2.0*t202*W[7]+2.0*t240*Z[7]+2.0*t363*Y[7]+2.0*t213*W[1]+2.0*
t251*Z[1]+2.0*t374*Y[1];
      t890 = 4.0*t55*Z[2]+4.0*t106*Y[2]+4.0*t182*X[2]+2.0*t65*Z[5]+2.0*t116*Y
[5]+2.0*t192*X[5]+2.0*t75*Z[8]+2.0*t126*Y[8]+2.0*t202*X[8]+2.0*t86*Z[2]+2.0*
t137*Y[2]+2.0*t213*X[2];
      t912 = 4.0*t55*W[2]+4.0*t144*Y[2]+4.0*t220*X[2]+2.0*t65*W[5]+2.0*t154*Y
[5]+2.0*t230*X[5]+2.0*t75*W[8]+2.0*t164*Y[8]+2.0*t240*X[8]+2.0*t86*W[2]+2.0*
t175*Y[2]+2.0*t251*X[2];
      t947 = 4.0*t106*W[2]+4.0*t144*Z[2]+4.0*t337*X[2]+2.0*t116*W[5]+2.0*t154*Z
[5]+2.0*t350*X[5]+2.0*t126*W[8]+2.0*t164*Z[8]+2.0*t363*X[8]+2.0*t137*W[2]+2.0*
t175*Z[2]+2.0*t374*X[2];
      t997 = 4.0*t182*W[2]+4.0*t220*Z[2]+4.0*t337*Y[2]+2.0*t192*W[5]+2.0*t230*Z
[5]+2.0*t350*Y[5]+2.0*t202*W[8]+2.0*t240*Z[8]+2.0*t363*Y[8]+2.0*t213*W[2]+2.0*
t251*Z[2]+2.0*t374*Y[2];
      t1056 = t16+t17+t18;
      t1061 = X[3]*X[6]+X[4]*X[7]+X[5]*X[8];
      t1067 = t41+t42+t43;
      t1072 = Y[3]*Y[6]+Y[4]*Y[7]+Y[5]*Y[8];
      t1081 = t80+t81+t82;
```

```
      t1091 = X[3]*Y[6]+Y[3]*X[6]+X[4]*Y[7]+Y[4]*X[7]+X[5]*Y[8]+Y[5]*X[8];
      t1115 = t131+t132+t133;
      t1125 = X[3]*Z[6]+Z[3]*X[6]+X[4]*Z[7]+Z[4]*X[7]+X[5]*Z[8]+Z[5]*X[8];
      t1136 = t169+t170+t171;
      t1146 = X[3]*W[6]+W[3]*X[6]+X[4]*W[7]+W[4]*X[7]+X[5]*W[8]+W[5]*X[8];
      t1157 = t207+t208+t209;
      t1167 = Y[3]*Z[6]+Z[3]*Y[6]+Y[4]*Z[7]+Z[4]*Y[7]+Y[5]*Z[8]+Z[5]*Y[8];
      t1178 = t245+t246+t247;
      t1188 = Y[3]*W[6]+W[3]*Y[6]+Y[4]*W[7]+W[4]*Y[7]+Y[5]*W[8]+W[5]*Y[8];
      t1216 = 2.0*t65*Z[0]+2.0*t116*Y[0]+2.0*t192*X[0]+4.0*t1081*Z[3]+4.0*t1115
*Y[3]+4.0*t1157*X[3]+2.0*t1091*Z[6]+2.0*t1125*Y[6]+2.0*t1167*X[6]+2.0*t86*Z[3]+
2.0*t137*Y[3]+2.0*t213*X[3];
      t1238 = 2.0*t65*W[0]+2.0*t154*Y[0]+2.0*t230*X[0]+4.0*t1081*W[3]+4.0*t1136
*Y[3]+4.0*t1178*X[3]+2.0*t1091*W[6]+2.0*t1146*Y[6]+2.0*t1188*X[6]+2.0*t86*W[3]+
2.0*t175*Y[3]+2.0*t251*X[3];
      t1244 = t320+t321+t322;
      t1251 = Z[3]*Z[6]+Z[4]*Z[7]+Z[5]*Z[8];
      t1267 = t368+t369+t370;
      t1280 = Z[3]*W[6]+W[3]*Z[6]+Z[4]*W[7]+W[4]*Z[7]+Z[5]*W[8]+W[5]*Z[8];
      t1286 = 2.0*t116*W[0]+2.0*t154*Z[0]+2.0*t350*X[0]+4.0*t1115*W[3]+4.0*
t1136*Z[3]+4.0*t1267*X[3]+2.0*t1125*W[6]+2.0*t1146*Z[6]+2.0*t1280*X[6]+2.0*t137
*W[3]+2.0*t175*Z[3]+2.0*t374*X[3];
      t1293 = t402+t403+t404;
      t1301 = W[3]*W[6]+W[4]*W[7]+W[5]*W[8];
      t1341 = 2.0*t192*W[0]+2.0*t230*Z[0]+2.0*t350*Y[0]+4.0*t1157*W[3]+4.0*
t1178*Z[3]+4.0*t1267*Y[3]+2.0*t1167*W[6]+2.0*t1188*Z[6]+2.0*t1280*Y[6]+2.0*t213
*W[3]+2.0*t251*Z[3]+2.0*t374*Y[3];
      t1510 = 2.0*t65*Z[1]+2.0*t116*Y[1]+2.0*t192*X[1]+4.0*t1081*Z[4]+4.0*t1115
*Y[4]+4.0*t1157*X[4]+2.0*t1091*Z[7]+2.0*t1125*Y[7]+2.0*t1167*X[7]+2.0*t86*Z[4]+
2.0*t137*Y[4]+2.0*t213*X[4];
      t1532 = 2.0*t65*W[1]+2.0*t154*Y[1]+2.0*t230*X[1]+4.0*t1081*W[4]+4.0*t1136
*Y[4]+4.0*t1178*X[4]+2.0*t1091*W[7]+2.0*t1146*Y[7]+2.0*t1188*X[7]+2.0*t86*W[4]+
2.0*t175*Y[4]+2.0*t251*X[4];
      t1567 = 2.0*t116*W[1]+2.0*t154*Z[1]+2.0*t350*X[1]+4.0*t1115*W[4]+4.0*
t1136*Z[4]+4.0*t1267*X[4]+2.0*t1125*W[7]+2.0*t1146*Z[7]+2.0*t1280*X[7]+2.0*t137
*W[4]+2.0*t175*Z[4]+2.0*t374*X[4];
      t1617 = 2.0*t192*W[1]+2.0*t230*Z[1]+2.0*t350*Y[1]+4.0*t1157*W[4]+4.0*
t1178*Z[4]+4.0*t1267*Y[4]+2.0*t1167*W[7]+2.0*t1188*Z[7]+2.0*t1280*Y[7]+2.0*t213
*W[4]+2.0*t251*Z[4]+2.0*t374*Y[4];
      t1786 = 2.0*t65*Z[2]+2.0*t116*Y[2]+2.0*t192*X[2]+4.0*t1081*Z[5]+4.0*t1115
*Y[5]+4.0*t1157*X[5]+2.0*t1091*Z[8]+2.0*t1125*Y[8]+2.0*t1167*X[8]+2.0*t86*Z[5]+
2.0*t137*Y[5]+2.0*t213*X[5];
      t1808 = 2.0*t65*W[2]+2.0*t154*Y[2]+2.0*t230*X[2]+4.0*t1081*W[5]+4.0*t1136
*Y[5]+4.0*t1178*X[5]+2.0*t1091*W[8]+2.0*t1146*Y[8]+2.0*t1188*X[8]+2.0*t86*W[5]+
2.0*t175*Y[5]+2.0*t251*X[5];
      t1843 = 2.0*t116*W[2]+2.0*t154*Z[2]+2.0*t350*X[2]+4.0*t1115*W[5]+4.0*
t1136*Z[5]+4.0*t1267*X[5]+2.0*t1125*W[8]+2.0*t1146*Z[8]+2.0*t1280*X[8]+2.0*t137
*W[5]+2.0*t175*Z[5]+2.0*t374*X[5];
      t1893 = 2.0*t192*W[2]+2.0*t230*Z[2]+2.0*t350*Y[2]+4.0*t1157*W[5]+4.0*
t1178*Z[5]+4.0*t1267*Y[5]+2.0*t1167*W[8]+2.0*t1188*Z[8]+2.0*t1280*Y[8]+2.0*t213
*W[5]+2.0*t251*Z[5]+2.0*t374*Y[5];
      t1953 = t19+t20+t21;
      t1960 = t44+t45+t46;
      t1972 = t83+t84+t85;
      t1999 = t134+t135+t136;
      t2013 = t172+t173+t174;
      t2027 = t210+t211+t212;
      t2041 = t248+t249+t250;
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      t2069 = 2.0*t75*Z[0]+2.0*t126*Y[0]+2.0*t202*X[0]+2.0*t1091*Z[3]+2.0*t1125
*Y[3]+2.0*t1167*X[3]+4.0*t1972*Z[6]+4.0*t1999*Y[6]+4.0*t2027*X[6]+2.0*t86*Z[6]+
2.0*t137*Y[6]+2.0*t213*X[6];
      t2091 = 2.0*t75*W[0]+2.0*t164*Y[0]+2.0*t240*X[0]+2.0*t1091*W[3]+2.0*t1146
*Y[3]+2.0*t1188*X[3]+4.0*t1972*W[6]+4.0*t2013*Y[6]+4.0*t2041*X[6]+2.0*t86*W[6]+
2.0*t175*Y[6]+2.0*t251*X[6];
      t2100 = t323+t324+t325;
      t2122 = t371+t372+t373;
      t2128 = 2.0*t126*W[0]+2.0*t164*Z[0]+2.0*t363*X[0]+2.0*t1125*W[3]+2.0*
t1146*Z[3]+2.0*t1280*X[3]+4.0*t1999*W[6]+4.0*t2013*Z[6]+4.0*t2122*X[6]+2.0*t137
*W[6]+2.0*t175*Z[6]+2.0*t374*X[6];
      t2139 = t405+t406+t407;
      t2179 = 2.0*t202*W[0]+2.0*t240*Z[0]+2.0*t363*Y[0]+2.0*t1167*W[3]+2.0*
t1188*Z[3]+2.0*t1280*Y[3]+4.0*t2027*W[6]+4.0*t2041*Z[6]+4.0*t2122*Y[6]+2.0*t213
*W[6]+2.0*t251*Z[6]+2.0*t374*Y[6];
      t2348 = 2.0*t75*Z[1]+2.0*t126*Y[1]+2.0*t202*X[1]+2.0*t1091*Z[4]+2.0*t1125
*Y[4]+2.0*t1167*X[4]+4.0*t1972*Z[7]+4.0*t1999*Y[7]+4.0*t2027*X[7]+2.0*t86*Z[7]+
2.0*t137*Y[7]+2.0*t213*X[7];
      t2370 = 2.0*t75*W[1]+2.0*t164*Y[1]+2.0*t240*X[1]+2.0*t1091*W[4]+2.0*t1146
*Y[4]+2.0*t1188*X[4]+4.0*t1972*W[7]+4.0*t2013*Y[7]+4.0*t2041*X[7]+2.0*t86*W[7]+
2.0*t175*Y[7]+2.0*t251*X[7];
      t2405 = 2.0*t126*W[1]+2.0*t164*Z[1]+2.0*t363*X[1]+2.0*t1125*W[4]+2.0*
t1146*Z[4]+2.0*t1280*X[4]+4.0*t1999*W[7]+4.0*t2013*Z[7]+4.0*t2122*X[7]+2.0*t137
*W[7]+2.0*t175*Z[7]+2.0*t374*X[7];
      t2455 = 2.0*t202*W[1]+2.0*t240*Z[1]+2.0*t363*Y[1]+2.0*t1167*W[4]+2.0*
t1188*Z[4]+2.0*t1280*Y[4]+4.0*t2027*W[7]+4.0*t2041*Z[7]+4.0*t2122*Y[7]+2.0*t213
*W[7]+2.0*t251*Z[7]+2.0*t374*Y[7];
      t2624 = 2.0*t75*Z[2]+2.0*t126*Y[2]+2.0*t202*X[2]+2.0*t1091*Z[5]+2.0*t1125
*Y[5]+2.0*t1167*X[5]+4.0*t1972*Z[8]+4.0*t1999*Y[8]+4.0*t2027*X[8]+2.0*t86*Z[8]+
2.0*t137*Y[8]+2.0*t213*X[8];
      t2646 = 2.0*t75*W[2]+2.0*t164*Y[2]+2.0*t240*X[2]+2.0*t1091*W[5]+2.0*t1146
*Y[5]+2.0*t1188*X[5]+4.0*t1972*W[8]+4.0*t2013*Y[8]+4.0*t2041*X[8]+2.0*t86*W[8]+
2.0*t175*Y[8]+2.0*t251*X[8];
      t2681 = 2.0*t126*W[2]+2.0*t164*Z[2]+2.0*t363*X[2]+2.0*t1125*W[5]+2.0*
t1146*Z[5]+2.0*t1280*X[5]+4.0*t1999*W[8]+4.0*t2013*Z[8]+4.0*t2122*X[8]+2.0*t137
*W[8]+2.0*t175*Z[8]+2.0*t374*X[8];
      t2731 = 2.0*t202*W[2]+2.0*t240*Z[2]+2.0*t363*Y[2]+2.0*t1167*W[5]+2.0*
t1188*Z[5]+2.0*t1280*Y[5]+4.0*t2027*W[8]+4.0*t2041*Z[8]+4.0*t2122*Y[8]+2.0*t213
*W[8]+2.0*t251*Z[8]+2.0*t374*Y[8];
      t2789 = X[0]*X[4];
      t2791 = X[0]*X[5];
      t2793 = X[3]*X[2];
      t2795 = X[6]*X[2];
      t2797 = X[1]*X[6];
      t2799 = X[3]*X[1];
      t2802 = Y[6]*Y[2];
      t2804 = Y[0]*Y[5];
      t2806 = Y[0]*Y[4];
      t2808 = Y[3]*Y[2];
      t2810 = Y[3]*Y[1];
      t2812 = Y[1]*Y[6];
      t2815 = X[3]*Y[1];
      t2817 = X[6]*Y[2];
      t2819 = Y[3]*X[2];
      t2821 = Y[3]*X[1];
      t2823 = X[3]*Y[2];
      t2828 = X[0]*Y[5];
      t2830 = X[0]*Y[4];
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      t2833 = Y[6]*X[2];
      t2835 = X[1]*Y[6];
      t2837 = Y[0]*X[4];
      t2839 = Y[0]*X[5];
      t2842 = Y[1]*X[6];
      t2845 = -t2815*X[8]-t2817*X[4]+t2819*X[7]-t2821*X[8]+t2823*X[7]+t2793*Y
[7]-t2799*Y[8]-t2791*Y[7]-t2828*X[7]+t2830*X[8]+t2789*Y[8]-t2833*X[4]+t2835*X
[5]+t2837*X[8]-t2839*X[7]+t2797*Y[5]+t2842*X[5]-t2795*Y[4];
      t2864 = -t2804*X[7]+t2835*Y[5]-t2815*Y[8]-t2810*X[8]+t2819*Y[7]-t2821*Y
[8]+t2830*Y[8]+t2808*X[7]-t2839*Y[7]+t2806*X[8]-t2817*Y[4]+t2842*Y[5]-t2802*X
[4]+t2837*Y[8]-t2833*Y[4]-t2828*Y[7]+t2823*Y[7]+t2812*X[5];
      t2866 = X[0]*Z[5];
      t2869 = X[3]*Z[2];
      t2871 = Z[0]*X[5];
      t2875 = X[0]*Z[4];
      t2877 = X[3]*Z[1];
      t2879 = Z[0]*X[4];
      t2882 = X[1]*Z[6];
      t2884 = X[6]*Z[2];
      t2886 = Z[6]*X[2];
      t2888 = Z[3]*X[1];
      t2890 = Z[3]*X[2];
      t2893 = Z[1]*X[6];
      t2895 = -t2795*Z[4]-t2866*X[7]+t2793*Z[7]+t2869*X[7]-t2871*X[7]-t2799*Z
[8]-t2791*Z[7]+t2875*X[8]-t2877*X[8]+t2879*X[8]+t2789*Z[8]+t2882*X[5]-t2884*X
[4]-t2886*X[4]-t2888*X[8]+t2890*X[7]+t2797*Z[5]+t2893*X[5];
      t2896 = X[0]*W[4];
      t2898 = X[0]*W[5];
      t2901 = W[0]*X[5];
      t2903 = W[3]*X[2];
      t2905 = W[1]*X[6];
      t2909 = X[6]*W[2];
      t2912 = X[3]*W[1];
      t2915 = X[3]*W[2];
      t2917 = W[3]*X[1];
      t2920 = X[1]*W[6];
      t2922 = W[0]*X[4];
      t2924 = W[6]*X[2];
      t2926 = t2896*X[8]-t2898*X[7]+t2789*W[8]-t2901*X[7]+t2903*X[7]+t2905*X[5]
-t2795*W[4]+t2797*W[5]-t2909*X[4]-t2799*W[8]-t2912*X[8]+t2793*W[7]+t2915*X[7]-
t2917*X[8]-t2791*W[7]+t2920*X[5]+t2922*X[8]-t2924*X[4];
      t2927 = Z[3]*Y[2];
      t2929 = Y[1]*Z[6];
      t2931 = Z[6]*Y[2];
      t2933 = Z[1]*Y[6];
      t2935 = Y[6]*Z[2];
      t2938 = Z[3]*Y[1];
      t2941 = Y[0]*Z[5];
      t2945 = Y[0]*Z[4];
      t2947 = Z[0]*Y[5];
      t2949 = Z[0]*Y[4];
      t2951 = Y[3]*Z[2];
      t2954 = Y[3]*Z[1];
      t2957 = t2927*Y[7]+t2929*Y[5]-t2931*Y[4]+t2933*Y[5]-t2935*Y[4]-t2802*Z[4]
-t2938*Y[8]+t2812*Z[5]-t2941*Y[7]+t2806*Z[8]-t2804*Z[7]+t2945*Y[8]-t2947*Y[7]+
t2949*Y[8]+t2951*Y[7]+t2808*Z[7]-t2954*Y[8]-t2810*Z[8];
      t2959 = Y[0]*W[5];
      t2961 = Y[0]*W[4];
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    t2964 = W[0]*Y[5];
    t2967 = W[0]*Y[4];
    t2969 = W[3]*Y[2];
    t2973 = Y[3]*W[1];
    t2975 = Y[3]*W[2];
    t2977 = W[3]*Y[1];
    t2979 = Y[1]*W[6];
    t2981 = W[6]*Y[2];
    t2984 = W[1]*Y[6];
    t2986 = Y[6]*W[2];
    t2988 = -t2802*W[4]-t2959*Y[7]+t2961*Y[8]+t2808*W[7]-t2964*Y[7]+t2806*W
[8]+t2967*Y[8]+t2969*Y[7]-t2804*W[7]-t2810*W[8]-t2973*Y[8]+t2975*Y[7]-t2977*Y
[8]+t2979*Y[5]-t2981*Y[4]+t2812*W[5]+t2984*Y[5]-t2986*Y[4];
    t3007 = -t2871*Y[7]+t2893*Y[5]+t2869*Y[7]+t2835*Z[5]-t2947*X[7]+t2875*Y
[8]-t2828*Z[7]+t2933*X[5]+t2842*Z[5]-t2888*Y[8]-t2938*X[8]+t2890*Y[7]+t2927*X
[7]+t2830*Z[8]-t2935*X[4]+t2879*Y[8]-t2833*Z[4]+t2882*Y[5];
    t3026 = -t2817*Z[4]+t2929*X[5]-t2886*Y[4]-t2931*X[4]-t2941*X[7]-t2839*Z
[7]+t2837*Z[8]+t2945*X[8]+t2951*X[7]-t2866*Y[7]+t2819*Z[7]-t2954*X[8]+t2823*Z
[7]-t2884*Y[4]+t2949*X[8]-t2877*Y[8]-t2821*Z[8]-t2815*Z[8];
    t3046 = t2905*Y[5]-t2817*W[4]+t2984*X[5]+t2915*Y[7]-t2964*X[7]+t2896*Y[8]
-t2901*Y[7]+t2967*X[8]+t2823*W[7]-t2815*W[8]-t2912*Y[8]-t2833*W[4]+t2835*W[5]+
t2961*X[8]+t2969*X[7]+t2842*W[5]-t2898*Y[7]-t2977*X[8];
    t3065 = t2903*Y[7]-t2828*W[7]+t2922*Y[8]+t2830*W[8]+t2975*X[7]+t2819*W[7]
-t2821*W[8]+t2837*W[8]-t2986*X[4]-t2924*Y[4]-t2981*X[4]-t2959*X[7]-t2839*W[7]+
t2920*Y[5]+t2979*X[5]-t2917*Y[8]-t2973*X[8]-t2909*Y[4];
    t3068 = Z[0]*Z[4];
    t3073 = Z[0]*Z[5];
    t3078 = Z[3]*Z[2];
    t3081 = Z[3]*Z[1];
    t3086 = Z[6]*Z[2];
    t3089 = Z[1]*Z[6];
    t3091 = t2879*Z[8]+t3068*X[8]+t2882*Z[5]-t2871*Z[7]-t2866*Z[7]-t3073*X[7]
-t2877*Z[8]+t2869*Z[7]-t2888*Z[8]+t3078*X[7]+t2890*Z[7]-t3081*X[8]+t2875*Z[8]-
t2884*Z[4]+t2893*Z[5]-t3086*X[4]-t2886*Z[4]+t3089*X[5];
    t3093 = W[3]*Z[1];
    t3096 = Z[1]*W[6];
    t3099 = W[6]*Z[2];
    t3103 = Z[3]*W[1];
    t3105 = Z[3]*W[2];
    t3112 = W[0]*Z[5];
    t3116 = t2915*Z[7]-t3093*X[8]+t2875*W[8]+t3096*X[5]-t2924*Z[4]-t3099*X[4]
+t2893*W[5]-t2888*W[8]-t3103*X[8]+t3105*X[7]+t2890*W[7]-t2917*Z[8]+t2905*Z[5]-
t2884*W[4]-t2909*Z[4]-t3112*X[7]+t2896*Z[8]-t2898*Z[7];
    t3119 = W[3]*Z[2];
    t3123 = Z[0]*W[5];
    t3127 = W[0]*Z[4];
    t3130 = Z[0]*W[4];
    t3133 = W[1]*Z[6];
    t3137 = Z[6]*W[2];
    t3141 = -t2866*W[7]+t2903*Z[7]+t3119*X[7]-t2877*W[8]-t2912*Z[8]-t3123*X
[7]-t2871*W[7]-t2901*Z[7]+t3127*X[8]+t2869*W[7]+t3130*X[8]+t2879*W[8]+t3133*X
[5]-t2886*W[4]+t2882*W[5]-t3137*X[4]+t2920*Z[5]+t2922*Z[8];
    t3147 = W[3]*W[2];
    t3150 = W[3]*W[1];
    t3152 = W[0]*W[5];
    t3159 = W[0]*W[4];
    t3161 = W[1]*W[6];
    t3165 = W[2]*W[6];
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      t3167 = -t2912*W[8]+t2915*W[7]+t2905*W[5]+t2903*W[7]+t3147*X[7]-t2917*W
[8]-t3150*X[8]-t3152*X[7]-t2909*W[4]-t2901*W[7]+t2896*W[8]-t2898*W[7]+t2922*W
[8]+t3159*X[8]+t3161*X[5]+t2920*W[5]-t2924*W[4]-t3165*X[4];
      t3186 = -t2941*Z[7]+t2945*Z[8]+t3068*Y[8]+t2927*Z[7]-t2954*Z[8]+t3078*Y
[7]-t2938*Z[8]-t3081*Y[8]+t2951*Z[7]+t2933*Z[5]-t2935*Z[4]+t2929*Z[5]+t3089*Y
[5]-t2931*Z[4]-t3086*Y[4]-t2947*Z[7]-t3073*Y[7]+t2949*Z[8];
      t3205 = t2927*W[7]+t2967*Z[8]-t2973*Z[8]+t2951*W[7]+t2975*Z[7]+t3130*Y[8]
-t2941*W[7]-t2959*Z[7]-t3123*Y[7]+t2949*W[8]-t2938*W[8]+t3105*Y[7]+t3127*Y[8]-
t3112*Y[7]-t2964*Z[7]+t2945*W[8]+t2961*Z[8]+t3119*Y[7];
      t3224 = -t2981*Z[4]+t3096*Y[5]-t3099*Y[4]+t3133*Y[5]+t2969*Z[7]-t3093*Y
[8]-t2977*Z[8]-t2931*W[4]+t2979*Z[5]-t2935*W[4]+t2929*W[5]-t2986*Z[4]+t2984*Z
[5]+t2933*W[5]-t2954*W[8]-t3137*Y[4]-t2947*W[7]-t3103*Y[8];
      t3244 = t2967*W[8]-t3152*Y[7]+t2961*W[8]-t2959*W[7]+t3159*Y[8]-t2964*W[7]
-t2986*W[4]-t2981*W[4]-t3165*Y[4]+t2984*W[5]+t2969*W[7]+t3147*Y[7]-t2977*W[8]-
t3150*Y[8]-t2973*W[8]+t2975*W[7]+t2979*W[5]+t3161*Y[5];
      t3270 = t3078*W[7]+t3105*Z[7]-t3093*Z[8]-t3081*W[8]-t3099*Z[4]+t3096*Z[5]
+t3127*Z[8]-t3073*W[7]-t3123*Z[7]-t3112*Z[7]-t3086*W[4]-t3137*Z[4]+t3119*Z[7]-
t3103*Z[8]+t3068*W[8]+t3130*Z[8]+t3089*W[5]+t3133*Z[5];
      t3289 = t3127*W[8]+t3159*Z[8]+t3130*W[8]-t3123*W[7]-t3137*W[4]-t3150*Z[8]
+t3119*W[7]+t3147*Z[7]+t3133*W[5]-t3093*W[8]-t3112*W[7]-t3152*Z[7]-t3103*W[8]+
t3105*W[7]-t3165*Z[4]-t3099*W[4]+t3096*W[5]+t3161*Z[5];
      R[0][0] = 2.0*t4*X[0]+2.0*t9*X[3]+2.0*t14*X[6]+22*X[0];
      R[0][1] = 2.0*t29*Y[0]+2.0*t34*Y[3]+2.0*t39*Y[6]+t47*Y[0];
      R[0][2] = 2.0*t4*Y[0]+4.0*t55*X[0]+2.0*t9*Y[3]+2.0*t65*X[3]+2.0*t14*Y[6]+
2.0*t75*X[6]+t22*Y[0]+2.0*t86*X[0];
      R[0][3] = 4.0*t55*Y[0]+2.0*t29*X[0]+2.0*t65*Y[3]+2.0*t34*X[3]+2.0*t75*Y
[6]+2.0*t39*X[6]+2.0*t86*Y[0]+t47*X[0];
      R[0][4] = 2.0*t4*Z[0]+4.0*t106*X[0]+2.0*t9*Z[3]+2.0*t116*X[3]+2.0*t14*Z
[6]+2.0*t126*X[6]+t22*Z[0]+2.0*t137*X[0];
      R[0][5] = 2.0*t4*W[0]+4.0*t144*X[0]+2.0*t9*W[3]+2.0*t154*X[3]+2.0*t14*W
[6]+2.0*t164*X[6]+t22*W[0]+2.0*t175*X[0];
      R[0][6] = 2.0*t29*Z[0]+4.0*t182*Y[0]+2.0*t34*Z[3]+2.0*t192*Y[3]+2.0*t39*Z
[6]+2.0*t202*Y[6]+t47*Z[0]+2.0*t213*Y[0];
      R[0][7] = 2.0*t29*W[0]+4.0*t220*Y[0]+2.0*t34*W[3]+2.0*t230*Y[3]+2.0*t39*W
[6]+2.0*t240*Y[6]+t47*W[0]+2.0*t251*Y[0];
      R[0][8] = t275;
      R[0][9] = t297;
      R[0][10] = 4.0*t106*Z[0]+2.0*t303*X[0]+2.0*t116*Z[3]+2.0*t310*X[3]+2.0*
t126*Z[6]+2.0*t317*X[6]+2.0*t137*Z[0]+t326*X[0];
      R[0][11] = t376;
      R[0][12] = 4.0*t144*W[0]+2.0*t382*X[0]+2.0*t154*W[3]+2.0*t390*X[3]+2.0*
t164*W[6]+2.0*t398*X[6]+2.0*t175*W[0]+t408*X[0];
      R[0][13] = 4.0*t182*Z[0]+2.0*t303*Y[0]+2.0*t192*Z[3]+2.0*t310*Y[3]+2.0*
t202*Z[6]+2.0*t317*Y[6]+2.0*t213*Z[0]+t326*Y[0];
      R[0][14] = t445;
      R[0][15] = 4.0*t220*W[0]+2.0*t382*Y[0]+2.0*t230*W[3]+2.0*t390*Y[3]+2.0*
t240*W[6]+2.0*t398*Y[6]+2.0*t251*W[0]+t408*Y[0];
      R[0][16] = 2.0*t303*Z[0]+2.0*t310*Z[3]+2.0*t317*Z[6]+t326*Z[0];
      R[0][17] = 2.0*t303*W[0]+4.0*t337*Z[0]+2.0*t310*W[3]+2.0*t350*Z[3]+2.0*
t317*W[6]+2.0*t363*Z[6]+t326*W[0]+2.0*t374*Z[0];
      R[0][18] = 4.0*t337*W[0]+2.0*t382*Z[0]+2.0*t350*W[3]+2.0*t390*Z[3]+2.0*
t363*W[6]+2.0*t398*Z[6]+2.0*t374*W[0]+t408*Z[0];
      R[0][19] = 2.0*t382*W[0]+2.0*t390*W[3]+2.0*t398*W[6]+t408*W[0];
      R[1][0] = 2.0*t4*X[1]+2.0*t9*X[4]+2.0*t14*X[7]+22*X[1];
      R[1][1] = 2.0*t29*Y[1]+2.0*t34*Y[4]+2.0*t39*Y[7]+t47*Y[1];
      R[1][2] = 2.0*t4*Y[1]+4.0*t55*X[1]+2.0*t9*Y[4]+2.0*t65*X[4]+2.0*t14*Y[7]+
2.0*t75*X[7]+t22*Y[1]+2.0*t86*X[1];
      R[1][3] = 4.0*t55*Y[1]+2.0*t29*X[1]+2.0*t65*Y[4]+2.0*t34*X[4]+2.0*t75*Y
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[7]+2.0*t39*X[7]+2.0*t86*Y[1]+t47*X[1];
      R[1][4] = 2.0*t4*Z[1]+4.0*t106*X[1]+2.0*t9*Z[4]+2.0*t116*X[4]+2.0*t14*Z
[7]+2.0*t126*X[7]+22*Z[1]+2.0*t137*X[1];
      R[1][5] = 2.0*t4*W[1]+4.0*t144*X[1]+2.0*t9*W[4]+2.0*t154*X[4]+2.0*t14*W
[7]+2.0*t164*X[7]+22*W[1]+2.0*t175*X[1];
      R[1][6] = 2.0*t29*Z[1]+4.0*t182*Y[1]+2.0*t34*Z[4]+2.0*t192*Y[4]+2.0*t39*Z
[7]+2.0*t202*Y[7]+t47*Z[1]+2.0*t213*Y[1];
      R[1][7] = 2.0*t29*W[1]+4.0*t220*Y[1]+2.0*t34*W[4]+2.0*t230*Y[4]+2.0*t39*W
[7]+2.0*t240*Y[7]+t47*W[1]+2.0*t251*Y[1];
      R[1][8] = t614;
      R[1][9] = t636;
      R[1][10] = 4.0*t106*Z[1]+2.0*t303*X[1]+2.0*t116*Z[4]+2.0*t310*X[4]+2.0*
t126*Z[7]+2.0*t317*X[7]+2.0*t137*Z[1]+t326*X[1];
      R[1][11] = t671;
      R[1][12] = 4.0*t144*W[1]+2.0*t382*X[1]+2.0*t154*W[4]+2.0*t390*X[4]+2.0*
t164*W[7]+2.0*t398*X[7]+2.0*t175*W[1]+t408*X[1];
      R[1][13] = 4.0*t182*Z[1]+2.0*t303*Y[1]+2.0*t192*Z[4]+2.0*t310*Y[4]+2.0*
t202*Z[7]+2.0*t317*Y[7]+2.0*t213*Z[1]+t326*Y[1];
      R[1][14] = t721;
      R[1][15] = 4.0*t220*W[1]+2.0*t382*Y[1]+2.0*t230*W[4]+2.0*t390*Y[4]+2.0*
t240*W[7]+2.0*t398*Y[7]+2.0*t251*W[1]+t408*Y[1];
      R[1][16] = 2.0*t303*Z[1]+2.0*t310*Z[4]+2.0*t317*Z[7]+t326*Z[1];
      R[1][17] = 2.0*t303*W[1]+4.0*t337*Z[1]+2.0*t310*W[4]+2.0*t350*Z[4]+2.0*
t317*W[7]+2.0*t363*Z[7]+t326*W[1]+2.0*t374*Z[1];
      R[1][18] = 4.0*t337*W[1]+2.0*t382*Z[1]+2.0*t350*W[4]+2.0*t390*Z[4]+2.0*
t363*W[7]+2.0*t398*Z[7]+2.0*t374*W[1]+t408*Z[1];
      R[1][19] = 2.0*t382*W[1]+2.0*t390*W[4]+2.0*t398*W[7]+t408*W[1];
      R[2][0] = 2.0*t4*X[2]+2.0*t9*X[5]+2.0*t14*X[8]+22*X[2];
      R[2][1] = 2.0*t29*Y[2]+2.0*t34*Y[5]+2.0*t39*Y[8]+t47*Y[2];
      R[2][2] = 2.0*t4*Y[2]+4.0*t55*X[2]+2.0*t9*Y[5]+2.0*t65*X[5]+2.0*t14*Y[8]+
2.0*t75*X[8]+22*Y[2]+2.0*t86*X[2];
      R[2][3] = 4.0*t55*Y[2]+2.0*t29*X[2]+2.0*t65*Y[5]+2.0*t34*X[5]+2.0*t75*Y
[8]+2.0*t39*X[8]+2.0*t86*Y[2]+t47*X[2];
      R[2][4] = 2.0*t4*Z[2]+4.0*t106*X[2]+2.0*t9*Z[5]+2.0*t116*X[5]+2.0*t14*Z
[8]+2.0*t126*X[8]+22*Z[2]+2.0*t137*X[2];
      R[2][5] = 2.0*t4*W[2]+4.0*t144*X[2]+2.0*t9*W[5]+2.0*t154*X[5]+2.0*t14*W
[8]+2.0*t164*X[8]+22*W[2]+2.0*t175*X[2];
      R[2][6] = 2.0*t29*Z[2]+4.0*t182*Y[2]+2.0*t34*Z[5]+2.0*t192*Y[5]+2.0*t39*Z
[8]+2.0*t202*Y[8]+t47*Z[2]+2.0*t213*Y[2];
      R[2][7] = 2.0*t29*W[2]+4.0*t220*Y[2]+2.0*t34*W[5]+2.0*t230*Y[5]+2.0*t39*W
[8]+2.0*t240*Y[8]+t47*W[2]+2.0*t251*Y[2];
      R[2][8] = t890;
      R[2][9] = t912;
      R[2][10] = 4.0*t106*Z[2]+2.0*t303*X[2]+2.0*t116*Z[5]+2.0*t310*X[5]+2.0*
t126*Z[8]+2.0*t317*X[8]+2.0*t137*Z[2]+t326*X[2];
      R[2][11] = t947;
      R[2][12] = 4.0*t144*W[2]+2.0*t382*X[2]+2.0*t154*W[5]+2.0*t390*X[5]+2.0*
t164*W[8]+2.0*t398*X[8]+2.0*t175*W[2]+t408*X[2];
      R[2][13] = 4.0*t182*Z[2]+2.0*t303*Y[2]+2.0*t192*Z[5]+2.0*t310*Y[5]+2.0*
t202*Z[8]+2.0*t317*Y[8]+2.0*t213*Z[2]+t326*Y[2];
      R[2][14] = t997;
      R[2][15] = 4.0*t220*W[2]+2.0*t382*Y[2]+2.0*t230*W[5]+2.0*t390*Y[5]+2.0*
t240*W[8]+2.0*t398*Y[8]+2.0*t251*W[2]+t408*Y[2];
      R[2][16] = 2.0*t303*Z[2]+2.0*t310*Z[5]+2.0*t317*Z[8]+t326*Z[2];
      R[2][17] = 2.0*t303*W[2]+4.0*t337*Z[2]+2.0*t310*W[5]+2.0*t350*Z[5]+2.0*
t317*W[8]+2.0*t363*Z[8]+t326*W[2]+2.0*t374*Z[2];
      R[2][18] = 4.0*t337*W[2]+2.0*t382*Z[2]+2.0*t350*W[5]+2.0*t390*Z[5]+2.0*
t363*W[8]+2.0*t398*Z[8]+2.0*t374*W[2]+t408*Z[2];
```

```
    R[2][19] = 2.0*t382*W[2]+2.0*t390*W[5]+2.0*t398*W[8]+t408*W[2];
    R[3][0] = 2.0*t9*X[0]+2.0*t1056*X[3]+2.0*t1061*X[6]+t22*X[3];
    R[3][1] = 2.0*t34*Y[0]+2.0*t1067*Y[3]+2.0*t1072*Y[6]+t47*Y[3];
    R[3][2] = 2.0*t9*Y[0]+2.0*t65*X[0]+2.0*t1056*Y[3]+4.0*t1081*X[3]+2.0*
t1061*Y[6]+2.0*t1091*X[6]+t22*Y[3]+2.0*t86*X[3];
    R[3][3] = 2.0*t65*Y[0]+2.0*t34*X[0]+4.0*t1081*Y[3]+2.0*t1067*X[3]+2.0*
t1091*Y[6]+2.0*t1072*X[6]+2.0*t86*Y[3]+t47*X[3];
    R[3][4] = 2.0*t9*Z[0]+2.0*t116*X[0]+2.0*t1056*Z[3]+4.0*t1115*X[3]+2.0*
t1061*Z[6]+2.0*t1125*X[6]+t22*Z[3]+2.0*t137*X[3];
    R[3][5] = 2.0*t9*W[0]+2.0*t154*X[0]+2.0*t1056*W[3]+4.0*t1136*X[3]+2.0*
t1061*W[6]+2.0*t1146*X[6]+t22*W[3]+2.0*t175*X[3];
    R[3][6] = 2.0*t34*Z[0]+2.0*t192*Y[0]+2.0*t1067*Z[3]+4.0*t1157*Y[3]+2.0*
t1072*Z[6]+2.0*t1167*Y[6]+t47*Z[3]+2.0*t213*Y[3];
    R[3][7] = 2.0*t34*W[0]+2.0*t230*Y[0]+2.0*t1067*W[3]+4.0*t1178*Y[3]+2.0*
t1072*W[6]+2.0*t1188*Y[6]+t47*W[3]+2.0*t251*Y[3];
    R[3][8] = t1216;
    R[3][9] = t1238;
    R[3][10] = 2.0*t116*Z[0]+2.0*t310*X[0]+4.0*t1115*Z[3]+2.0*t1244*X[3]+2.0*
t1125*Z[6]+2.0*t1251*X[6]+2.0*t137*Z[3]+t326*X[3];
    R[3][11] = t1286;
    R[3][12] = 2.0*t154*W[0]+2.0*t390*X[0]+4.0*t1136*W[3]+2.0*t1293*X[3]+2.0*
t1146*W[6]+2.0*t1301*X[6]+2.0*t175*W[3]+t408*X[3];
    R[3][13] = 2.0*t192*Z[0]+2.0*t310*Y[0]+4.0*t1157*Z[3]+2.0*t1244*Y[3]+2.0*
t1167*Z[6]+2.0*t1251*Y[6]+2.0*t213*Z[3]+t326*Y[3];
    R[3][14] = t1341;
    R[3][15] = 2.0*t230*W[0]+2.0*t390*Y[0]+4.0*t1178*W[3]+2.0*t1293*Y[3]+2.0*
t1188*W[6]+2.0*t1301*Y[6]+2.0*t251*W[3]+t408*Y[3];
    R[3][16] = 2.0*t310*Z[0]+2.0*t1244*Z[3]+2.0*t1251*Z[6]+t326*Z[3];
    R[3][17] = 2.0*t310*W[0]+2.0*t350*Z[0]+2.0*t1244*W[3]+4.0*t1267*Z[3]+2.0*
t1251*W[6]+2.0*t1280*Z[6]+t326*W[3]+2.0*t374*Z[3];
    R[3][18] = 2.0*t350*W[0]+2.0*t390*Z[0]+4.0*t1267*W[3]+2.0*t1293*Z[3]+2.0*
t1280*W[6]+2.0*t1301*Z[6]+2.0*t374*W[3]+t408*Z[3];
    R[3][19] = 2.0*t390*W[0]+2.0*t1293*W[3]+2.0*t1301*W[6]+t408*W[3];
    R[4][0] = 2.0*t9*X[1]+2.0*t1056*X[4]+2.0*t1061*X[7]+t22*X[4];
    R[4][1] = 2.0*t34*Y[1]+2.0*t1067*Y[4]+2.0*t1072*Y[7]+t47*Y[4];
    R[4][2] = 2.0*t9*Y[1]+2.0*t65*X[1]+2.0*t1056*Y[4]+4.0*t1081*X[4]+2.0*
t1061*Y[7]+2.0*t1091*X[7]+t22*Y[4]+2.0*t86*X[4];
    R[4][3] = 2.0*t65*Y[1]+2.0*t34*X[1]+4.0*t1081*Y[4]+2.0*t1067*X[4]+2.0*
t1091*Y[7]+2.0*t1072*X[7]+2.0*t86*Y[4]+t47*X[4];
    R[4][4] = 2.0*t9*Z[1]+2.0*t116*X[1]+2.0*t1056*Z[4]+4.0*t1115*X[4]+2.0*
t1061*Z[7]+2.0*t1125*X[7]+t22*Z[4]+2.0*t137*X[4];
    R[4][5] = 2.0*t9*W[1]+2.0*t154*X[1]+2.0*t1056*W[4]+4.0*t1136*X[4]+2.0*
t1061*W[7]+2.0*t1146*X[7]+t22*W[4]+2.0*t175*X[4];
    R[4][6] = 2.0*t34*Z[1]+2.0*t192*Y[1]+2.0*t1067*Z[4]+4.0*t1157*Y[4]+2.0*
t1072*Z[7]+2.0*t1167*Y[7]+t47*Z[4]+2.0*t213*Y[4];
    R[4][7] = 2.0*t34*W[1]+2.0*t230*Y[1]+2.0*t1067*W[4]+4.0*t1178*Y[4]+2.0*
t1072*W[7]+2.0*t1188*Y[7]+t47*W[4]+2.0*t251*Y[4];
    R[4][8] = t1510;
    R[4][9] = t1532;
    R[4][10] = 2.0*t116*Z[1]+2.0*t310*X[1]+4.0*t1115*Z[4]+2.0*t1244*X[4]+2.0*
t1125*Z[7]+2.0*t1251*X[7]+2.0*t137*Z[4]+t326*X[4];
    R[4][11] = t1567;
    R[4][12] = 2.0*t154*W[1]+2.0*t390*X[1]+4.0*t1136*W[4]+2.0*t1293*X[4]+2.0*
t1146*W[7]+2.0*t1301*X[7]+2.0*t175*W[4]+t408*X[4];
    R[4][13] = 2.0*t192*Z[1]+2.0*t310*Y[1]+4.0*t1157*Z[4]+2.0*t1244*Y[4]+2.0*
t1167*Z[7]+2.0*t1251*Y[7]+2.0*t213*Z[4]+t326*Y[4];
    R[4][14] = t1617;
    R[4][15] = 2.0*t230*W[1]+2.0*t390*Y[1]+4.0*t1178*W[4]+2.0*t1293*Y[4]+2.0*
```

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t1188*W[7]+2.0*t1301*Y[7]+2.0*t251*W[4]+t408*Y[4];
        R[4][16] = 2.0*t310*Z[1]+2.0*t1244*Z[4]+2.0*t1251*Z[7]+t326*Z[4];
        R[4][17] = 2.0*t310*W[1]+2.0*t350*Z[1]+2.0*t1244*W[4]+4.0*t1267*Z[4]+2.0*
t1251*W[7]+2.0*t1280*Z[7]+t326*W[4]+2.0*t374*Z[4];
        R[4][18] = 2.0*t350*W[1]+2.0*t390*Z[1]+4.0*t1267*W[4]+2.0*t1293*Z[4]+2.0*
t1280*W[7]+2.0*t1301*Z[7]+2.0*t374*W[4]+t408*Z[4];
        R[4][19] = 2.0*t390*W[1]+2.0*t1293*W[4]+2.0*t1301*W[7]+t408*W[4];
        R[5][0] = 2.0*t9*X[2]+2.0*t1056*X[5]+2.0*t1061*X[8]+t22*X[5];
        R[5][1] = 2.0*t34*Y[2]+2.0*t1067*Y[5]+2.0*t1072*Y[8]+t47*Y[5];
        R[5][2] = 2.0*t9*Y[2]+2.0*t65*X[2]+2.0*t1056*Y[5]+4.0*t1081*X[5]+2.0*
t1061*Y[8]+2.0*t1091*X[8]+t22*Y[5]+2.0*t86*X[5];
        R[5][3] = 2.0*t65*Y[2]+2.0*t34*X[2]+4.0*t1081*Y[5]+2.0*t1067*X[5]+2.0*
t1091*Y[8]+2.0*t1072*X[8]+2.0*t86*Y[5]+t47*X[5];
        R[5][4] = 2.0*t9*Z[2]+2.0*t116*X[2]+2.0*t1056*Z[5]+4.0*t1115*X[5]+2.0*
t1061*Z[8]+2.0*t1125*X[8]+t22*Z[5]+2.0*t137*X[5];
        R[5][5] = 2.0*t9*W[2]+2.0*t154*X[2]+2.0*t1056*W[5]+4.0*t1136*X[5]+2.0*
t1061*W[8]+2.0*t1146*X[8]+t22*W[5]+2.0*t175*X[5];
        R[5][6] = 2.0*t34*Z[2]+2.0*t192*Y[2]+2.0*t1067*Z[5]+4.0*t1157*Y[5]+2.0*
t1072*Z[8]+2.0*t1167*Y[8]+t47*Z[5]+2.0*t213*Y[5];
        R[5][7] = 2.0*t34*W[2]+2.0*t230*Y[2]+2.0*t1067*W[5]+4.0*t1178*Y[5]+2.0*
t1072*W[8]+2.0*t1188*Y[8]+t47*W[5]+2.0*t251*Y[5];
        R[5][8] = t1786;
        R[5][9] = t1808;
        R[5][10] = 2.0*t116*Z[2]+2.0*t310*X[2]+4.0*t1115*Z[5]+2.0*t1244*X[5]+2.0*
t1125*Z[8]+2.0*t1251*X[8]+2.0*t137*Z[5]+t326*X[5];
        R[5][11] = t1843;
        R[5][12] = 2.0*t154*W[2]+2.0*t390*X[2]+4.0*t1136*W[5]+2.0*t1293*X[5]+2.0*
t1146*W[8]+2.0*t1301*X[8]+2.0*t175*W[5]+t408*X[5];
        R[5][13] = 2.0*t192*Z[2]+2.0*t310*Y[2]+4.0*t1157*Z[5]+2.0*t1244*Y[5]+2.0*
t1167*Z[8]+2.0*t1251*Y[8]+2.0*t213*Z[5]+t326*Y[5];
        R[5][14] = t1893;
        R[5][15] = 2.0*t230*W[2]+2.0*t390*Y[2]+4.0*t1178*W[5]+2.0*t1293*Y[5]+2.0*
t1188*W[8]+2.0*t1301*Y[8]+2.0*t251*W[5]+t408*Y[5];
        R[5][16] = 2.0*t310*Z[2]+2.0*t1244*Z[5]+2.0*t1251*Z[8]+t326*Z[5];
        R[5][17] = 2.0*t310*W[2]+2.0*t350*Z[2]+2.0*t1244*W[5]+4.0*t1267*Z[5]+2.0*
t1251*W[8]+2.0*t1280*Z[8]+t326*W[5]+2.0*t374*Z[5];
        R[5][18] = 2.0*t350*W[2]+2.0*t390*Z[2]+4.0*t1267*W[5]+2.0*t1293*Z[5]+2.0*
t1280*W[8]+2.0*t1301*Z[8]+2.0*t374*W[5]+t408*Z[5];
        R[5][19] = 2.0*t390*W[2]+2.0*t1293*W[5]+2.0*t1301*W[8]+t408*W[5];
        R[6][0] = 2.0*t14*X[0]+2.0*t1061*X[3]+2.0*t1953*X[6]+t22*X[6];
        R[6][1] = 2.0*t39*Y[0]+2.0*t1072*Y[3]+2.0*t1960*Y[6]+t47*Y[6];
        R[6][2] = 2.0*t14*Y[0]+2.0*t75*X[0]+2.0*t1061*Y[3]+2.0*t1091*X[3]+2.0*
t1953*Y[6]+4.0*t1972*X[6]+t22*Y[6]+2.0*t86*X[6];
        R[6][3] = 2.0*t75*Y[0]+2.0*t39*X[0]+2.0*t1091*Y[3]+2.0*t1072*X[3]+4.0*
t1972*Y[6]+2.0*t1960*X[6]+2.0*t86*Y[6]+t47*X[6];
        R[6][4] = 2.0*t14*Z[0]+2.0*t126*X[0]+2.0*t1061*Z[3]+2.0*t1125*X[3]+2.0*
t1953*Z[6]+4.0*t1999*X[6]+t22*Z[6]+2.0*t137*X[6];
        R[6][5] = 2.0*t14*W[0]+2.0*t164*X[0]+2.0*t1061*W[3]+2.0*t1146*X[3]+2.0*
t1953*W[6]+4.0*t2013*X[6]+t22*W[6]+2.0*t175*X[6];
        R[6][6] = 2.0*t39*Z[0]+2.0*t202*Y[0]+2.0*t1072*Z[3]+2.0*t1167*Y[3]+2.0*
t1960*Z[6]+4.0*t2027*Y[6]+t47*Z[6]+2.0*t213*Y[6];
        R[6][7] = 2.0*t39*W[0]+2.0*t240*Y[0]+2.0*t1072*W[3]+2.0*t1188*Y[3]+2.0*
t1960*W[6]+4.0*t2041*Y[6]+t47*W[6]+2.0*t251*Y[6];
        R[6][8] = t2069;
        R[6][9] = t2091;
        R[6][10] = 2.0*t126*Z[0]+2.0*t317*X[0]+2.0*t1125*Z[3]+2.0*t1251*X[3]+4.0*
t1999*Z[6]+2.0*t2100*X[6]+2.0*t137*Z[6]+t326*X[6];
        R[6][11] = t2128;
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      R[6][12] = 2.0*t164*W[0]+2.0*t398*X[0]+2.0*t1146*W[3]+2.0*t1301*X[3]+4.0*
t2013*W[6]+2.0*t2139*X[6]+2.0*t175*W[6]+t408*X[6];
      R[6][13] = 2.0*t202*Z[0]+2.0*t317*Y[0]+2.0*t1167*Z[3]+2.0*t1251*Y[3]+4.0*
t2027*Z[6]+2.0*t2100*Y[6]+2.0*t213*Z[6]+t326*Y[6];
      R[6][14] = t2179;
      R[6][15] = 2.0*t240*W[0]+2.0*t398*Y[0]+2.0*t1188*W[3]+2.0*t1301*Y[3]+4.0*
t2041*W[6]+2.0*t2139*Y[6]+2.0*t251*W[6]+t408*Y[6];
      R[6][16] = 2.0*t317*Z[0]+2.0*t1251*Z[3]+2.0*t2100*Z[6]+t326*Z[6];
      R[6][17] = 2.0*t317*W[0]+2.0*t363*Z[0]+2.0*t1251*W[3]+2.0*t1280*Z[3]+2.0*
t2100*W[6]+4.0*t2122*Z[6]+t326*W[6]+2.0*t374*Z[6];
      R[6][18] = 2.0*t363*W[0]+2.0*t398*Z[0]+2.0*t1280*W[3]+2.0*t1301*Z[3]+4.0*
t2122*W[6]+2.0*t2139*Z[6]+2.0*t374*W[6]+t408*Z[6];
      R[6][19] = 2.0*t398*W[0]+2.0*t1301*W[3]+2.0*t2139*W[6]+t408*W[6];
      R[7][0] = 2.0*t14*X[1]+2.0*t1061*X[4]+2.0*t1953*X[7]+t22*X[7];
      R[7][1] = 2.0*t39*Y[1]+2.0*t1072*Y[4]+2.0*t1960*Y[7]+t47*Y[7];
      R[7][2] = 2.0*t14*Y[1]+2.0*t75*X[1]+2.0*t1061*Y[4]+2.0*t1091*X[4]+2.0*
t1953*Y[7]+4.0*t1972*X[7]+t22*Y[7]+2.0*t86*X[7];
      R[7][3] = 2.0*t75*Y[1]+2.0*t39*X[1]+2.0*t1091*Y[4]+2.0*t1072*X[4]+4.0*
t1972*Y[7]+2.0*t1960*X[7]+2.0*t86*Y[7]+t47*X[7];
      R[7][4] = 2.0*t14*Z[1]+2.0*t126*X[1]+2.0*t1061*Z[4]+2.0*t1125*X[4]+2.0*
t1953*Z[7]+4.0*t1999*X[7]+t22*Z[7]+2.0*t137*X[7];
      R[7][5] = 2.0*t14*W[1]+2.0*t164*X[1]+2.0*t1061*W[4]+2.0*t1146*X[4]+2.0*
t1953*W[7]+4.0*t2013*X[7]+t22*W[7]+2.0*t175*X[7];
      R[7][6] = 2.0*t39*Z[1]+2.0*t202*Y[1]+2.0*t1072*Z[4]+2.0*t1167*Y[4]+2.0*
t1960*Z[7]+4.0*t2027*Y[7]+t47*Z[7]+2.0*t213*Y[7];
      R[7][7] = 2.0*t39*W[1]+2.0*t240*Y[1]+2.0*t1072*W[4]+2.0*t1188*Y[4]+2.0*
t1960*W[7]+4.0*t2041*Y[7]+t47*W[7]+2.0*t251*Y[7];
      R[7][8] = t2348;
      R[7][9] = t2370;
      R[7][10] = 2.0*t126*Z[1]+2.0*t317*X[1]+2.0*t1125*Z[4]+2.0*t1251*X[4]+4.0*
t1999*Z[7]+2.0*t2100*X[7]+2.0*t137*Z[7]+t326*X[7];
      R[7][11] = t2405;
      R[7][12] = 2.0*t164*W[1]+2.0*t398*X[1]+2.0*t1146*W[4]+2.0*t1301*X[4]+4.0*
t2013*W[7]+2.0*t2139*X[7]+2.0*t175*W[7]+t408*X[7];
      R[7][13] = 2.0*t202*Z[1]+2.0*t317*Y[1]+2.0*t1167*Z[4]+2.0*t1251*Y[4]+4.0*
t2027*Z[7]+2.0*t2100*Y[7]+2.0*t213*Z[7]+t326*Y[7];
      R[7][14] = t2455;
      R[7][15] = 2.0*t240*W[1]+2.0*t398*Y[1]+2.0*t1188*W[4]+2.0*t1301*Y[4]+4.0*
t2041*W[7]+2.0*t2139*Y[7]+2.0*t251*W[7]+t408*Y[7];
      R[7][16] = 2.0*t317*Z[1]+2.0*t1251*Z[4]+2.0*t2100*Z[7]+t326*Z[7];
      R[7][17] = 2.0*t317*W[1]+2.0*t363*Z[1]+2.0*t1251*W[4]+2.0*t1280*Z[4]+2.0*
t2100*W[7]+4.0*t2122*Z[7]+t326*W[7]+2.0*t374*Z[7];
      R[7][18] = 2.0*t363*W[1]+2.0*t398*Z[1]+2.0*t1280*W[4]+2.0*t1301*Z[4]+4.0*
t2122*W[7]+2.0*t2139*Z[7]+2.0*t374*W[7]+t408*Z[7];
      R[7][19] = 2.0*t398*W[1]+2.0*t1301*W[4]+2.0*t2139*W[7]+t408*W[7];
      R[8][0] = 2.0*t14*X[2]+2.0*t1061*X[5]+2.0*t1953*X[8]+t22*X[8];
      R[8][1] = 2.0*t39*Y[2]+2.0*t1072*Y[5]+2.0*t1960*Y[8]+t47*Y[8];
      R[8][2] = 2.0*t14*Y[2]+2.0*t75*X[2]+2.0*t1061*Y[5]+2.0*t1091*X[5]+2.0*
t1953*Y[8]+4.0*t1972*X[8]+t22*Y[8]+2.0*t86*X[8];
      R[8][3] = 2.0*t75*Y[2]+2.0*t39*X[2]+2.0*t1091*Y[5]+2.0*t1072*X[5]+4.0*
t1972*Y[8]+2.0*t1960*X[8]+2.0*t86*Y[8]+t47*X[8];
      R[8][4] = 2.0*t14*Z[2]+2.0*t126*X[2]+2.0*t1061*Z[5]+2.0*t1125*X[5]+2.0*
t1953*Z[8]+4.0*t1999*X[8]+t22*Z[8]+2.0*t137*X[8];
      R[8][5] = 2.0*t14*W[2]+2.0*t164*X[2]+2.0*t1061*W[5]+2.0*t1146*X[5]+2.0*
t1953*W[8]+4.0*t2013*X[8]+t22*W[8]+2.0*t175*X[8];
      R[8][6] = 2.0*t39*Z[2]+2.0*t202*Y[2]+2.0*t1072*Z[5]+2.0*t1167*Y[5]+2.0*
t1960*Z[8]+4.0*t2027*Y[8]+t47*Z[8]+2.0*t213*Y[8];
      R[8][7] = 2.0*t39*W[2]+2.0*t240*Y[2]+2.0*t1072*W[5]+2.0*t1188*Y[5]+2.0*
```

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t1960*W[8]+4.0*t2041*Y[8]+t47*W[8]+2.0*t251*Y[8];
        R[8][8] = t2624;
        R[8][9] = t2646;
        R[8][10] = 2.0*t126*Z[2]+2.0*t317*X[2]+2.0*t1125*Z[5]+2.0*t1251*X[5]+4.0*
t1999*Z[8]+2.0*t2100*X[8]+2.0*t137*Z[8]+t326*X[8];
        R[8][11] = t2681;
        R[8][12] = 2.0*t164*W[2]+2.0*t398*X[2]+2.0*t1146*W[5]+2.0*t1301*X[5]+4.0*
t2013*W[8]+2.0*t2139*X[8]+2.0*t175*W[8]+t408*X[8];
        R[8][13] = 2.0*t202*Z[2]+2.0*t317*Y[2]+2.0*t1167*Z[5]+2.0*t1251*Y[5]+4.0*
t2027*Z[8]+2.0*t2100*Y[8]+2.0*t213*Z[8]+t326*Y[8];
        R[8][14] = t2731;
        R[8][15] = 2.0*t240*W[2]+2.0*t398*Y[2]+2.0*t1188*W[5]+2.0*t1301*Y[5]+4.0*
t2041*W[8]+2.0*t2139*Y[8]+2.0*t251*W[8]+t408*Y[8];
        R[8][16] = 2.0*t317*Z[2]+2.0*t1251*Z[5]+2.0*t2100*Z[8]+t326*Z[8];
        R[8][17] = 2.0*t317*W[2]+2.0*t363*Z[2]+2.0*t1251*W[5]+2.0*t1280*Z[5]+2.0*
t2100*W[8]+4.0*t2122*Z[8]+t326*W[8]+2.0*t374*Z[8];
        R[8][18] = 2.0*t363*W[2]+2.0*t398*Z[2]+2.0*t1280*W[5]+2.0*t1301*Z[5]+4.0*
t2122*W[8]+2.0*t2139*Z[8]+2.0*t374*W[8]+t408*Z[8];
        R[8][19] = 2.0*t398*W[2]+2.0*t1301*W[5]+2.0*t2139*W[8]+t408*W[8];
        R[9][0] = t2789*X[8]-t2791*X[7]+t2793*X[7]-t2795*X[4]+t2797*X[5]-t2799*X
[8];
        R[9][1] = -t2802*Y[4]-t2804*Y[7]+t2806*Y[8]+t2808*Y[7]-t2810*Y[8]+t2812*Y
[5];
        R[9][2] = t2845;
        R[9][3] = t2864;
        R[9][4] = t2895;
        R[9][5] = t2926;
        R[9][6] = t2957;
        R[9][7] = t2988;
        R[9][8] = t3007+t3026;
        R[9][9] = t3046+t3065;
        R[9][10] = t3091;
        R[9][11] = t3116+t3141;
        R[9][12] = t3167;
        R[9][13] = t3186;
        R[9][14] = t3205+t3224;
        R[9][15] = t3244;
        R[9][16] = -t3081*Z[8]-t3073*Z[7]+t3089*Z[5]+t3078*Z[7]+t3068*Z[8]-t3086*
Z[4];
        R[9][17] = t3270;
        R[9][18] = t3289;
        R[9][19] = t3147*W[7]-t3150*W[8]+t3159*W[8]-t3165*W[4]+t3161*W[5]-t3152*W
[7];
>
```