

```
> restart:
```

```
ordre := 7;
```

```
+ (1/5040)*F[7, 0, 0, 0]*x^7
+ (1/720)*F[6, 1, 0, 0]*x^6*y
+ (1/720)*F[6, 0, 0, 1]*x^6*w
+ (1/12)*x^5*z*w
+ (1/24)*F[5, 1, 0, 0]*x^5*y^2;
```

ordre:= 7

$$\begin{aligned} & \frac{1}{5040} F_{7,0,0,0} x^7 + \frac{1}{720} F_{6,1,0,0} x^6 y + \frac{1}{720} F_{6,0,0,1} x^6 w + \frac{1}{12} x^5 z w \\ & + \frac{1}{24} F_{5,1,0,0} x^5 y^2 \end{aligned} \quad (1)$$

```
> restart:
```

```
ordre := 8;
```

```
+ (1/40320)*F[8, 0, 0, 0]*x^8
+ (1/5040)*F[7, 1, 0, 0]*x^7*y
+ (1/5040)*F[7, 0, 1, 0]*x^7*z
+ (1/5040)*F[7, 0, 0, 1]*x^7*w
+ (1/120)*F[6, 1, 0, 0]*x^6*y^2
+ (1/48)*F[5, 1, 0, 0]*x^6*y*z
+ (1/120)*F[6, 0, 0, 1]*x^6*y*w
+ (1/72)*x^6*w^2;
```

ordre:= 8

$$\begin{aligned} & \frac{1}{40320} F_{8,0,0,0} x^8 + \frac{1}{5040} F_{7,1,0,0} x^7 y + \frac{1}{5040} F_{7,0,1,0} x^7 z + \frac{1}{5040} F_{7,0,0,1} x^7 w \\ & + \frac{1}{120} F_{6,1,0,0} x^6 y^2 + \frac{1}{48} F_{5,1,0,0} x^6 y z + \frac{1}{120} F_{6,0,0,1} x^6 y w + \frac{1}{72} x^6 w^2 \end{aligned} \quad (2)$$

```
> restart:
```

```
ordre := 9;
```

```
+ (1/362880)*F[9, 0, 0, 0]*x^9
+ (1/40320)*F[8, 1, 0, 0]*x^8*y
+ (1/40320)*F[8, 0, 1, 0]*x^8*z
+ (1/40320)*F[8, 0, 0, 1]*x^8*w
+ (1/10080*(-42*F[7, 0, 0, 0] + 14*F[7, 1, 0, 0]))*x^7*y^2
+ (1/5040*(7*F[7, 0, 1, 0] + 21*F[6, 1, 0, 0]))*x^7*y*z
+ (1/5040*(7*F[7, 0, 0, 1] + 35*F[5, 1, 0, 0]))*x^7*y*w
+ (1/240)*F[6, 0, 0, 1]*x^7*z*w ;
```

ordre:= 9

$$\begin{aligned} & \frac{1}{362880} F_{9,0,0,0} x^9 + \frac{1}{40320} F_{8,1,0,0} x^8 y + \frac{1}{40320} F_{8,0,1,0} x^8 z \\ & + \frac{1}{40320} F_{8,0,0,1} x^8 w + \frac{1}{10080} (-42 F_{7,0,0,0} + 14 F_{7,1,0,0}) x^7 y^2 \\ & + \frac{1}{5040} (7 F_{7,0,1,0} + 21 F_{6,1,0,0}) x^7 y z + \frac{1}{5040} (7 F_{7,0,0,1} \\ & + 35 F_{5,1,0,0}) x^7 y w + \frac{1}{240} F_{6,0,0,1} x^7 z w \end{aligned} \quad (3)$$