$$\begin{vmatrix} A_{-}I &:= 1-x & A_{-}I &:= 1-x & (1) \\ A_{-}2 &:= 2-x & A_{-}2 &:= 2-x & (2) \\ A_{-}3 &:= 3-x & A_{-}3 &:= 3-x & (3) \\ B_{-}I &:= x & B_{-}I &:= x & (4) \\ B_{-}2 &:= x-1 & B_{-}2 &:= x-1 & (5) \\ B_{-}3 &:= x-2 & B_{-}3 &:= x-2 & (6) \\ C_{-}I &:= simplify \left( \frac{1}{6} \left( A_{-}I^{3} - A_{-}I \right) \right) & C_{-}I &:= -\frac{1}{6} x^{3} + \frac{1}{2} x^{2} - \frac{1}{3} x & (7) \\ C_{-}2 &:= -\frac{1}{6} x^{3} + x^{2} - \frac{11}{6} x + 1 & (8) \\ C_{-}2 &:= -\frac{1}{6} x^{3} - \frac{1}{6} x + 2 - \frac{11}{6} x + 1 & (9) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( A_{-}J^{3} - A_{-}J \right) \right) & C_{-}3 &:= -\frac{1}{6} x^{3} + \frac{3}{2} x^{2} - \frac{13}{3} x + 4 & (9) \\ C_{-}3 &:= -\frac{1}{6} x^{3} - \frac{1}{6} x & (10) \\ C_{-}3 &:= -\frac{1}{6} x^{3} - \frac{1}{6} x & (10) \\ C_{-}3 &:= -\frac{1}{6} x^{3} - \frac{1}{2} x^{2} + \frac{1}{3} x & (11) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( B_{-}J^{3} - B_{-}J \right) \right) & D_{-}2 &:= \frac{1}{6} x^{3} - \frac{1}{2} x^{2} + \frac{1}{3} x & (11) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( B_{-}J^{3} - B_{-}J \right) \right) & D_{-}3 &:= \frac{1}{6} x^{3} - x^{2} + \frac{11}{6} x - 1 & (12) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( B_{-}J^{3} - B_{-}J \right) \right) & D_{-}3 &:= \frac{1}{6} x^{3} - x^{2} + \frac{11}{6} x - 1 & (12) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( B_{-}J^{3} - B_{-}J \right) \right) & D_{-}3 &:= \frac{1}{6} x^{3} - x^{2} + \frac{11}{6} x - 1 & (12) \\ C_{-}3 &:= simplify \left( \frac{1}{6} \left( B_{-}J^{3} - B_{-}J \right) \right) & D_{-}3 &:= \frac{1}{6} x^{3} - x^{2} + \frac{11}{6} x - 1 & (12) \\ C_{-}3 &:= contains & c$$

$$Mi := \begin{bmatrix} 1 & 0 & 0 & 0 \\ -\frac{4}{15} & \frac{4}{15} & -\frac{1}{15} & \frac{1}{15} \\ \frac{1}{15} & -\frac{1}{15} & \frac{4}{15} & -\frac{4}{15} \\ 0 & 0 & 0 & 1 \end{bmatrix}$$
 (14)

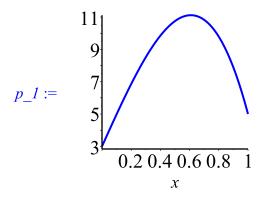
>  $MatrixVectorMultiply(M, \langle 0, -30, 12, 0 \rangle)$ 

$$\begin{bmatrix} 0 \\ -108 \\ 18 \\ 0 \end{bmatrix}$$
 (15)

$$y\_1 := simplify(3 \cdot A\_1 + 5 \cdot B\_1 - 108 \cdot D\_1)$$

$$y\_1 := -18 x^3 + 20 x + 3$$

$$p\_1 := plot(y\_1, x = 0 ...1, color = blue)$$
(16)



> 
$$y_2 := simplify(5 \cdot A_2 + 2 \cdot B_2 - 108 \cdot C_2 + 18 \cdot D_2)$$
  
 $y_2 := 21 x^3 - 117 x^2 + 201 x - 100$  (17)

 $p_2 := plot(y_2, x = 1 ...2, color = magenta)$ 

$$y\_3 := simplify(2 \cdot A\_3 + B\_3 + 18 C\_3)$$

$$y\_3 := -3 x^3 + 27 x^2 - 79 x + 76$$

$$p\_3 := plot(y\_3, x = 2 ..3, color = khaki)$$
(18)

