$$A = 2x^{3} + 3x^{2} - 17x - 30$$

$$A(-2) = 0$$

$$\begin{vmatrix} 2 & 3 & -17 & | -30 \\ -2 & -4 & 2 & | 30 \\ 2 & -1 & -15 & | 0 \end{vmatrix}$$

$$A = (x+2) \left(2x^{2} - x - 15\right) = (x+2)xG$$

$$G$$

$$G(3) = 0$$

$$2 - 1 & | -15 \\ 3 & 6 & | 15 \\ 2 & 5 & | 0 \end{vmatrix}$$

$$G = (x-3)(2x+5)$$

$$A = (x+2)(x-3)(2x+5)$$

$$B = 2x^{3} - x^{2} - 5x - 2$$

$$B(-1) = 0 \qquad |2 - 1 - 5| - 2$$

$$-1 \qquad -2 \qquad 3 \qquad 2$$

$$2 \qquad -3 \quad -2 \quad 0$$

$$B = (x+1)(2x^{2} - 3x - 2) = (x+1)xG$$

$$G$$

$$G(2) = 0 \qquad |2 \qquad -3| - 2$$

$$2 \qquad |4 \qquad |2 \qquad |$$

$$2 \qquad |4 \qquad |2 \qquad |$$

$$2 \qquad |4 \qquad |2 \qquad |$$

$$4 \qquad |2 \qquad |4 \qquad |$$

$$G = (x-2)(2x+1)$$

B = (x+1)(x-2)(2x+1)

$$C = 2x^{3} + 5x^{2} - 4x - 3$$

$$C(1) = 0 \quad | 2 \quad 5 \quad -4 | -3$$

$$\frac{1}{2} \quad \frac{2}{7} \quad \frac{7}{3} \quad \alpha$$

$$C = (x-1)(2x^2+7x+3) = (x-1)\times G$$

$$G(-3) = 0$$
 | 2 7 | 3
 -3 | -6 | -3 | 2 1 0

$$G = (x+3)(2x+1)$$

$$C = (x-1)(x+3)(2x+1)$$

$$D = x^3 - 39x + 70$$

$$D(2) = 0 \qquad | 1 \quad 0 \quad -39 \quad | 70$$

$$2 \qquad 2 \qquad 4 \quad -70$$

$$| 1 \quad 2 \quad -35 \quad 0$$

$$D = (x-2)(x^{2}+2x-35) = (x-2) \times G$$

$$G = (x-5)(x+7)$$

$$D = (x-2)(x-5)(x+7)$$

$$E = x^4 - 4x^3 - 2x^2 + 9x - 4$$

$$E(4) = 0 \qquad | 1 - 4 - 2 \quad 9 | - 4$$

$$\frac{4}{1} \quad \frac{4}{0} \quad \frac{0 - 8}{1} \quad \frac{4}{0}$$

$$\overline{E} = (x-h)(x^3-2x^4+1) = (x-h)\times G$$

$$G(1)=0$$
 | 1 0 -2 | 1
1 1 1 -1
1 1 -1 0

$$G = (\chi - 1) \left(\chi^2 + \chi - 1 \right)$$

$$E = (x-h)(x-1)(x^2+x-1)$$

$$F = \chi^5 + 32$$

$$F(-2)=0$$
 | 1 0 0 0 0 32
 -2 -2 4 -8 16 -32
1 -2 4 -8 16 0

$$F = (x+2)(x^4-2x^3+4x^2-8x+16)$$