

Factoriser

$$\begin{aligned} A &= x^2 - 3x + 2 \\ &= x^2 - 2x - x + 2 \\ &= x(x-2) - (x-2) \\ &= (x-2)(x-1) \end{aligned}$$

$$\begin{aligned} B &= -9x^2 - 6x - 1 \\ &= -(9x^2 + 6x + 1) \\ &= -(3x+1)^2 \end{aligned}$$

$$\begin{aligned} C &= -10 + (x+5)^2 - 2x \\ &= -10 - 2x + (x+5)^2 \\ &= -2(5+x) + (x+5)^2 \\ &= (x+5)[-2 + (x+5)] \\ &= (x+5)(x+3) \end{aligned}$$

$$\begin{aligned} D &= -2x^2 + x + 1 \\ &= -2x^2 + 2x - x + 1 \\ &= 2x(-x+1) + (-x+1) \\ &= (-x+1)(2x+1) \\ &= (1-x)(2x+1) \end{aligned}$$

$$E = x^2 + 2\sqrt{2}x + 2$$

$$F = x^2 - 2$$

$$G = 4x^2 - 12x + 8$$

$$H = x - (3x-1)^3 + 2x - 1$$

$$\begin{aligned} I &= (x^4 - 1)(x^2 + 2x + 1) \\ &= [(x^2)^2 - 1^2](x^2 + 2x \times 1 + 1^2) \end{aligned}$$

$$\begin{aligned} &= (x^2 - 1)(x^2 + 1)(x + 1)^2 \\ &= (x-1)(x+1)(x^2 + 1)(x+1)^2 \\ &= (x-1)(x^2 + 1)(x+1)^3 \end{aligned}$$

$$J = x^2 - 9 - (2x-6)x + (x-3)^2$$

$$K = (x-11)^2 + (33-3x)(x+2)$$

$$L = (2x-1)x + (1-2x)^2 + (x-1/2)(x-3/2)$$

$$M = x^2(1 + 1/x) + 2(x+1)^2$$

$$N = -0,3(2x-3)^2 + 0,7x(1,5-x)$$

$$O = 0,25x^2 - x + 1$$

$$P = x^2 - (x+1)^2$$

$$Q = 5(1-x)^2 - 45x^2$$

$$R = (x+1)^2 - 2(x+1) + 1$$

$$S = x^5 + 4x^4 + 4x^3$$

$$T = (5x-1)(x+3) + 3(25x^2-1)$$

$$U = 49 - 28x + 4x^2 + (7-2x)(5-3x)$$

$$V = x^2(x-4) + 2x(x-4) + x-4$$

$$W = x^2 + 6x + 5$$

$$X = 3x^2 + 7x + 2$$

$$Y = -2x^2 - x + 1$$

$$Z = 2x^2 - 3x + 1$$

$$A' = x^3 + 3x^2 + 2x$$

$$B' = (4-3x)^2 - (x+4)^2 + (x-4)^2$$