

Factoriser

Exercice 1 :

$$G = (x - 3)(2x + 1) + 7(2x + 1)$$

$$H = (x+1)(x+2) + 5(x+2)$$

$$I = 5(1+2x) + (x+1)(1+2x)$$

$$J = (x+1)(3-x) + (x+1)(2+5x)$$

$$K = (x+2)(x+1) + (x+2)(7x-5)$$

$$L = (3t+4)(t-2) + (t+7)(3t+4)$$

$$(5+12)(4+18) = 7$$

$$: (1-x)(2+x) = (4-x)(2+x) = K ; (x+5)(1+x) = J ; (x+2)(1+x)(9+x) = I ; (2+x)(6+x) = H ; (1+x)(2+x)(4+x) = G$$

Exercice 2 :

$$M = (3-x)(4x+1) - 8(4x+1)$$

$$N = 6(3x-2) - (3x-2)(x-4)$$

$$P = (x-6)(2-x) - (2-x)(3+4x)$$

$$Q = (x+3)^2 - (x+3)(5+x)$$

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

$$S = (2x+1)^2 - (x-3)(10x+5)$$

$$(91+x)(1+x) = S ; (1+x)(2+x) = R$$

$$(3+x)(2-x) = Q ; (3+x)(x-2) - 3(3-x) = N ; (3-x)(2-x)(10) = P ; (4x+1)(-5-x) = M$$