Exercice N°1 :

Factoriser les expressions suivantes :

$A = 7a + 21$

$B = 14a - 35$

$C = 10x + 5$

$D = 27x - 36$

Exercice N°2 :

Factoriser les expressions suivantes :

$A = a^2 + 2a$

$B = 3a^2 - 6a$

$C = 12x^2 - 14x$

$D = 27x^4 - 18x^3 - 15x^2$

Exercice N°3 :

Factoriser

$A = 5(x + 1) + x(x + 1)$

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

$C = (2x - 5)(4x - 3) - (2x - 5)(3x - 1)$

$D = 2(3x - 1)(x + 3) - 3(x + 3)(4x + 1)$

$E = 7(x - 7) - x(x - 7) + 4(x - 7)$

$F = (2x + 5)(3x - 7) - (2x + 5)(5x - 3)$

$G = (5x + 7)(x - 1) + (x - 1)(3x - 4)$

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

$I = (x + 7)(5x + 2) - 3(5x + 2)^2$

$J = (3x - 4)(2x + 3) - (2x - 3)(3x - 4)$

Exercice N°4 :

Factoriser

$A = (5x - 2) + 4(2x + 1)(5x - 2)$

$B = 7x(2x + 3) + 2x + 3$

$C = (3x + 5)(x - 1) + (x - 1)$

$D = (7x - 2)(3x + 4) - (3x + 4)$

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

$F = (7x - 2)(x - 9) + 14x - 4$

$G = (x + 4)^2 + (x - 4)(x + 4) + 2x + 8$

$H = (2x + 6)(x - 5) + 3x + 9$

Exercice N°5 :

Factoriser les expressions suivantes :

$A = 2(1 - 6x)(x + 1) - 3(2x - 1)(1 - 6x)$

$B = (5x + 2)(3x - 4) - (3x - 4)$

$C = (2x - 1)(3x + 2) - 4x(2x - 1)$

$D = 3(3x + 4)(2x + 3) - 2(3x + 4)(5 - 6x)$