

Développer et réduire les expressions suivantes.

A = (2x+4)(5x+2)

$$E = (6x + 4)(4x + 8)$$

$$B = (x+7)(x+11)$$

$$F = (x+9)(x+8)$$

$$C = (x+5)(x+12)$$

$$D = (6x + 9)(3x + 2)$$



Développer et réduire les expressions suivantes.

A = (9x - 4)(8x - 2)

$$E = (2x - 8)(7x + 3)$$

$$B = (2x - 9)(6x + 3)$$

$$F = (5x - 7)(9x - 8)$$

$$C = (8x - 4)(4x - 9)$$

$$D = (6x - 9)(7x + 5)$$



Développer et réduire les expressions suivantes.

A = 10 - (-8x + 2)(-4x + 3)

$$E = (2x \times 3)(4x - 8)$$

$$B = -4x + (x+1)(-6x-7)$$

$$F = 1 + (5x + 3)(10x - 5)$$

$$C = -6(4x - 6) - (8 + 7x)$$

$$D = 9x + 10(8x - 2)$$

3L11-1

3L11-1

3L11-3



Corrections



$$A = (2x + 4)(5x + 2) = 10x^{2} + 4x + 20x + 8 = 10x^{2} + 24x + 8$$

$$B = (x+7)(x+11) = x^2 + 7x + 11x + 77 = x^2 + 18x + 77$$

$$C = (x+5)(x+12) = x^2 + 5x + 12x + 60 = x^2 + 17x + 60$$

$$D = (6x + 9)(3x + 2) = 18x^{2} + 12x + 27x + 18 = 18x^{2} + 39x + 18$$

$$E = (6x + 4)(4x + 8) = 24x^{2} + 48x + 16x + 32 = 24x^{2} + 64x + 32$$

$$F = (x+9)(x+8) = x^2 + 9x + 8x + 72 = x^2 + 17x + 72$$



$$A = (9x - 4)(8x - 2) = 72x^{2} - 18x - 32x + 8 = 72x^{2} - 50x + 8$$

$$B = (2x - 9)(6x + 3) = 12x^{2} + 6x - 54x - 27 = 12x^{2} - 48x - 27$$

$$C = (8x - 4)(4x - 9) = 32x^2 - 72x - 16x + 36 = 32x^2 - 88x + 36$$

$$D = (6x - 9)(7x + 5) = 42x^{2} + 30x - 63x - 45 = 42x^{2} - 33x - 45$$

$$E = (2x - 8)(7x + 3) = 14x^{2} + 6x - 56x - 24 = 14x^{2} - 50x - 24$$

$$F = (5x - 7)(9x - 8) = 45x^2 - 40x - 63x + 56 = 45x^2 - 103x + 56$$



$$A = 10 - (-8x + 2)(-4x + 3)$$

$$= 10 - (32x^2 - 24x - 8x + 6)$$

$$=10-32x^2+24x+8x-6$$

$$=-32x^2+32x+4$$

$$B = -4x + (x+1)(-6x-7)$$

$$=-4x-6x^2-7x-6x-7$$

$$=-6x^2-17x-7$$

$$C = -6(4x - 6) - (8 + 7x)$$

$$=-24x+36-(8+7x)$$

$$= -24x + 36 - 8 - 7x$$

$$=-31x+28$$

$$D = 9x + 10(8x - 2)$$

$$=9x + 80x - 20$$

$$= 89x - 20$$

$$E = (2x \times 3)(4x - 8)$$

$$= 6x \times (4x - 8)$$

$$=24x^2-48x$$

$$F = 1 + (5x + 3)(10x - 5)$$

$$= 1 + 50x^2 - 25x + 30x - 15$$

$$= 50x^2 + 5x - 14$$