

EX
1

Factoriser les expressions suivantes.

4L11

$$A = -2a + 6b$$

$$B = 3a + 24b$$

$$C = 7a + 35b$$

$$D = -3a - 21b$$

$$E = 3a + 6b$$

$$F = -2a + 8b$$

EX
2

Factoriser les expressions suivantes.

4L11

$$A = -49a + 56b$$

$$B = -4a - 18b$$

$$C = -25a + 45b$$

$$D = 9a - 24b$$

$$E = 20a - 25b$$

$$F = 42a + 49b$$

EX
3

Factoriser les expressions suivantes.

4L11

$$A = -40x + 45x^2$$

$$B = 3x^2 + 4x$$

$$C = 8x - 10x^2$$

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

$$E = 15x - 40x^2$$

$$F = 28x + 49x^2$$

Corrections

EX
1

$$A = -2a + 6b$$

$$= -2a + 2 \times 3b$$

$$= 2(-a + 3b)$$

$$B = 3a + 24b$$

$$= 3a + 3 \times 8b$$

$$= 3(a + 8b)$$

$$C = 7a + 35b$$

$$= 7a + 7 \times 5b$$

$$= 7(a + 5b)$$

$$D = -3a - 21b$$

$$= -3a + (-3) \times 7b$$

$$= -3(a + 7b)$$

$$E = 3a + 6b$$

$$= 3a + 3 \times 2b$$

$$= 3(a + 2b)$$

$$F = -2a + 8b$$

$$= -2a + 2 \times 4b$$

$$= 2(-a + 4b)$$

EX
2

$$A = -49a + 56b$$

$$= 7 \times (-7a) + 7 \times 8b$$

$$= 7(-7a + 8b)$$

$$B = -4a - 18b$$

$$= 2 \times (-2a) - 2 \times 9b$$

$$= 2(-2a - 9b)$$

$$C = -25a + 45b$$

$$= 5 \times (-5a) + 5 \times 9b$$

$$= 5(-5a + 9b)$$

$$D = 9a - 24b$$

$$= 3 \times 3a - 3 \times 8b$$

$$= 3(3a - 8b)$$

$$E = 20a - 25b$$

$$= 5 \times 4a - 5 \times 5b$$

$$= 5(4a - 5b)$$

$$F = 42a + 49b$$

$$= 7 \times 6a + 7 \times 7b$$

$$= 7(6a + 7b)$$

EX
3

$$A = -40x + 45x^2$$

$$= 5x \times (-8) + 5x \times 9x$$

$$= 5x(-8 + 9x)$$

$$B = 3x^2 + 4x$$

$$= x \times 3x + x \times 4$$

$$= x(3x + 4)$$

$$C = 8x - 10x^2$$

$$= 2x \times 4 - 2x \times 5x$$

$$= 2x(4 - 5x)$$

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

$$= x \times (-4)x + x \times 1$$

$$= x(-4x + 1)$$

$$E = 15x - 40x^2$$

$$= 5x \times 3 - 5x \times 8x$$

$$= 5x(3 - 8x)$$

$$F = 28x + 49x^2$$

$$= 7x \times 4 + 7x \times 7x$$

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