

$$* H = (2x^2 - 7x + 4) - 4x(-3 + 2x)$$

$$H = 2x^2 - 7x + 4 - 4x \times (-3) + (-4x) \times 2x$$

$$H = 2x^2 - 7x + 4 + 12x - 8x^2$$

$$H = -6x^2 + 5x + 4$$

$$* I = 5x(-3x - 6) - (-15x^2 + 18x - 6)$$

$$I = 5x \times (-3x) - 5x \times 6 + 15x^2 - 18x + 6$$

$$I = -15x^2 - 30x + 15x^2 - 18x + 6$$

$$I = -48x + 6$$

### exercice 9

$$\textcircled{1} \quad 12 = 10 + 2 \quad \text{donc} \quad 35 \times 12 = 35 \times (10 + 2)$$

$$35 \times 12 = 35 \times 10 + 35 \times 2$$

$$35 \times 12 = 350 + 70$$

$$\text{et donc} \quad 35 \times 12 = 420$$

$$\textcircled{2} * A = 27 \times 101$$

$$A = 27 \times (100 + 1)$$

$$A = 27 \times 100 + 27 \times 1$$

$$A = 2700 + 27$$

$$A = 2727$$

$$* B = 17 \times 13$$

$$B = 17 \times (10 + 3)$$

$$B = 17 \times 10 + 17 \times 3$$

$$B = 170 + 51$$

$$B = 221$$

$$* C = 57 \times 99$$

$$C = 57 \times (100 - 1)$$

$$C = 57 \times 100 - 57 \times 1$$

$$C = 5700 - 57$$

$$C = 5643$$

$$* D = 45 \times 19$$

$$D = 45 \times (20 - 1)$$

$$D = 45 \times 20 - 45 \times 1$$

$$D = 900 - 45$$

$$D = 855$$