

Identités remarquables et développements

Mathématiques Seconde

2017-2018

$$A = -(3x + 2)^2$$

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$$A = -(3x + 2)^2$$

$$A = -[(3x)^2 + 2 \times 3x \times 2 + 2^2]$$

$$A = -(3x + 2)^2$$

$$A = -(3x + 2)^2$$

$$A = -[(3x)^2 + 2 \times 3x \times 2 + 2^2]$$

$$A = -[9x^2 + 12x + 4]$$

$$A = -(3x + 2)^2$$

$$A = -(3x + 2)^2$$

$$A = -[(3x)^2 + 2 \times 3x \times 2 + 2^2]$$

$$A = -[9x^2 + 12x + 4]$$

$$A = -9x^2 - 12x - 4$$

Ainsi $A = -9x^2 - 12x - 4$.

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x)^2 - 1 + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x)^2 - 1 + 1 - 9x^2$$

$$B = 9x^2 - 1 + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x - 1)(3x + 1) + 1 - 9x^2$$

$$B = (3x)^2 - 1 + 1 - 9x^2$$

$$B = 9x^2 - 1 + 1 - 9x^2$$

$$B = 0$$

Ainsi $B = 0$.

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - [(2x)^2 - 2 \times 2x \times 4 + 4^2]$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - [(2x)^2 - 2 \times 2x \times 4 + 4^2]$$

$$C = -3x^2 - 2 - [4x^2 - 16x + 16]$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - [(2x)^2 - 2 \times 2x \times 4 + 4^2]$$

$$C = -3x^2 - 2 - [4x^2 - 16x + 16]$$

$$C = -3x^2 - 2 - 4x^2 + 16x - 16$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - (2x - 4)^2$$

$$C = -3x^2 - 2 - [(2x)^2 - 2 \times 2x \times 4 + 4^2]$$

$$C = -3x^2 - 2 - [4x^2 - 16x + 16]$$

$$C = -3x^2 - 2 - 4x^2 + 16x - 16$$

$$C = -7x^2 + 16x - 18$$

Ainsi $C = -7x^2 + 16x - 18$.

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

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

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

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

$$D = (x - 3) \times (x^2 - 8x + 16)$$

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

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

$$D = (x - 3) \times (x^2 - 8x + 16)$$

$$D = x^3 - 8x^2 + 16x - 3x^2 + 24x + 48$$

$$D = (x - 3) \times (x - 4)^2$$

$$D = (x - 3) \times (x - 4)^2$$

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

$$D = (x - 3) \times (x^2 - 8x + 16)$$

$$D = x^3 - 8x^2 + 16x - 3x^2 + 24x + 48$$

$$D = x^3 - 11x^2 + 40x + 48$$

Ainsi $D = x^3 - 11x^2 + 40x + 48$.

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times ((2x)^2 - 2 \times 2x \times 3 + 3^2)$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times ((2x)^2 - 2 \times 2x \times 3 + 3^2)$$

$$E = (x + 2) \times (4x^2 - 12x + 9)$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times ((2x)^2 - 2 \times 2x \times 3 + 3^2)$$

$$E = (x + 2) \times (4x^2 - 12x + 9)$$

$$E = 4x^3 - 12x^2 + 9x + 8x^2 - 24x + 18$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times (2x - 3)^2$$

$$E = (x + 2) \times ((2x)^2 - 2 \times 2x \times 3 + 3^2)$$

$$E = (x + 2) \times (4x^2 - 12x + 9)$$

$$E = 4x^3 - 12x^2 + 9x + 8x^2 - 24x + 18$$

$$E = 4x^3 - 4x^2 - 15x + 18$$

Ainsi $E = 4x^3 - 24x^2 + 45x - 27.$