

Développer et réduire, si possible, les expressions suivantes :

$A = 2x + 8 - 2x + 63$	$B = 3x - 5 - 8x + 9 + x^2 + 2x^2$	$C = 8x - 2x^2 + 9 - 9 + 2x^2$
$D = x^2 - 3x(x + 1) - 2x - 8$	$E = 2 \times 3x + 6 \times 4 - 2x \times 4x + 2x$	$F = 2x + 3 - 2x - 1 - 2$
$G = 3(2x + 6)$	$H = -2(x + 3)$	$I = 3x(2x - 5)$
$K = 3(2x - 1) + 3(4x - 1)$	$L = 2x(x - 1) + x^2 - 3$	$M = 3x^2 - 2x(2x - 1) + 2$

$$A = 2x + 8 - 2x + 63$$

$$A = \cancel{2x} - \cancel{2x} + 8 + 63$$

$$A = 71$$

$$B = 3x - 5 - 8x + 9 + x^2 + 2x^2$$

$$B = 2x^2 + x^2 + 3x - 8x + 9 - 5$$

$$B = 2x^2 + -5x + 4$$

$$C = 8x - 2x^2 + 9 - 9 + 2x^2$$

$$C = (-2 + 2)x^2 + (8)x + (9 - 9)$$

$$C = 8x$$

$$D = x^2 - 3x(x + 1) - 2x - 8$$

$$D = x^2 \oplus (-3 + 1 - 2)x \oplus (1 - 8)$$

$$D = x^2 + -4x + -7$$

$$E = 2 \times 3x + 6 \times 4 - 2x \times 4x + 2x$$

$$E = 6x + 24 - 8x^2 + 2x$$

$$E = -8x^2 + 6x + 2x + 24$$

$$E = -8x^2 + 8x + 24$$

$$F = 2x + 3 - 2x - 1 - 2$$

$$F = 2x - 2x + 3 - 1 - 2$$

$$F = 0 + 0$$

$$G = 3(2x + 6)$$

$$G = 3 \times 2x + 3 \times 6$$

$$G = 6x + 18$$

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

$$H = -2 \times x + -2 \times 3$$

$$H = -2x + -6$$

$$I = 3x(2x - 5)$$

$$I = 3x \times 2x + 3x \times -5$$

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

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

$$K = 3 \times 2x + 3 \times -1 + 3 \times 4x + 3 \times -1$$

$$K = 6x + -3 + 12x + -3$$

$$K = 6x + 12x + -3 - 3$$

$$K = 18x + 6$$

$$L = 2x(x-1) + x^2 - 3$$

$$L = 2x \times x + 2x \times -1 + x^2 - 3$$

$$L = 2x^2 + -2x + x^2 - 3$$

$$L = 2x^2 + x^2 + -2x + -3$$

$$L = 2x^2 + -2x + -3$$

$$M = 3x^2 - 2x(2x-1) + 2$$

$$M = 3x^2 - 2x \times 2x + 2x \times -1 + 2$$

$$M = 3x^2 - 4x^2 + -2x + 2$$

$$M = 3x^2 - 4x^2 - 2x + 2$$

$$M = -1x^2 - 2x + 2$$