

EXERCICE 1B.1 – Développer en utilisant l'identité remarquable qui convient :

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|------------------------|------------------|------------------------|
| $A = (x + 4)^2$ | $B = (2 - x)^2$ | $C = (x + 1)(x - 1)$ |
| $D = (2x + 1)^2$ | $E = (3 - 2x)^2$ | $F = (7x + 5)^2$ |
| $G = (5x + 6)(5x - 6)$ | $H = (4 - 8x)^2$ | $I = (3 + 4x)(3 + 4x)$ |
| $J = (3 + x)(x - 3)$ | $K = (2 + 9x)^2$ | $L = (11x - 12)^2$ |

EXERCICE 1B.2 – Développer, réduire, ordonner :

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|--|------------------------------------|
| $Z = (x + 2)^2 + (3 - 2x)(3 + 2x)$ $Z = x^2 + 4x + 4 + 9 - 4x^2$ $Z = -3x^2 + 4x + 13$ | $A = (x + 1)^2 + (x - 3)^2$ |
| $B = (3 - x)^2 + (x + 5)^2$ | $C = (x - 2)^2 + (x + 4)(x - 4)$ |
| $D = (x + 1)(x - 1) + (x + 4)^2$ | $E = (x - 5)^2 + (2x + 7)(2x - 7)$ |

EXERCICE 1B.3 – Développer, réduire, ordonner :

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|---|------------------------------------|
| $Z = (x + 2)^2 - (3 - 2x)(3 + 2x)$ $Z = x^2 + 4x + 4 - (9 - 4x^2)$ $Z = x^2 + 4x + 4 - 9 + 4x^2$ $Z = 5x^2 + 4x - 5$ | $A = (2x + 1)^2 - (x + 3)^2$ |
| $B = (2x + 3)^2 - (x - 7)(x + 7)$ | $C = (x + 2)(x - 2) - (x - 3)^2$ |
| $D = (x - 5)^2 - (2x - 7)(x - 5)$ | $E = (3x + 1)(x - 2) - (2x - 3)^2$ |