

Corrigé Exercice 8

$$f'_1(x) = 3x^2$$

$$g'_1(x) = 1$$

$$h'_1(x) = 2x$$

$$i'_1(x) = 0$$

$$j'_1(x) = 0$$

$$k'_1(t) = 3t^2$$

$$l'_1(x) = 1$$

$$m'_1(x) = 2x$$

Corrigé Exercice 9

$$f'_2(x) = 2x + 1$$

$$g'_2(x) = 3x^2 - 2x$$

$$h'_2(x) = 3x^2 + 1$$

$$i'_2(x) = 2x - 12$$

$$j'_2(x) = -3x^2 + 2x$$

$$k'_2(x) = 2x + 1$$

$$l'_2(x) = 3x^2$$

$$m'_2(t) = -2t - 1$$

Corrigé Exercice 10

$$f'_3(x) = 5 \times 3x^2 \\ = 15x^2$$

$$g'_3(x) = -4 \times 2x \\ = -8x$$

$$h'_3(x) = 25$$

$$i'_3(t) = -6 \times 2t \\ = -12t$$

$$j'_3(x) = 0,4 \times 3x^2 \\ = 1,2x^2$$

$$k'_3(x) = 0,1 \times 2x \\ = 0,2x$$

$$l'_3(x) = -20 \times 3x^2 \\ = -60x^2$$

$$m'_3(t) = 0,5$$

$$n'_3(x) = -1,2 \times 2x \\ = -2,4x$$

$$p'_3(x) = 2,5 \times 3x^2 \\ = 7,5x^2$$

Corrigé Exercice 11

$$f'_4(x) = 2 \times 3x^2 - 3 \times 2x + 1 \\ = 6x^2 - 6x + 1$$

$$g'_4(x) = 5 \times 2x + 3 \\ = 10x + 3$$

$$h'_4(t) = 3t^2 - 5 \times 2t + 2 \\ = 3t^2 - 10t + 2$$

$$i'_4(x) = 0,1 \times 3x^2 - 10 \times 2x \\ = 0,3x^2 - 20x$$

$$j'_4(x) = 1,4 \times 2x + 4 \\ = 2,8x + 4$$

$$k'_4(x) = 15 \times 3x^2 - 30 \times 2x + 20 \\ = 45x^2 - 60x + 20$$

$$l'_4(x) = 2,25 \times 2x - 1,5 \\ = 5x - 1,5$$

$$m'_4(t) = 4 \times 3t^2 - 2 \\ = 12t^2 - 2$$

$$n'_4(x) = 10 \times 3x^2 - 20 \times 2x + 5 \\ = 30x^2 - 40x + 5$$