

Exercice 1

$$A = 70008 = \underline{7,0008 \times 10^4}$$

$$B = 0,00532 = \underline{5,32 \times 10^{-3}}$$

$$C = 553,64 \times 10^{-5} = \underline{5,5364 \times 10^{-3}}$$

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Exercice 2

$$D = \frac{0,3 \times 10^2 + 5 \times 10^{-3}}{4 \times 10^{-4}} = \frac{1,5 \times 10^{-1}}{4 \times 10^{-4}} = \frac{1,5 \times 10^3}{4} = 1,5 \times 250 = 375 = \underline{3,75 \times 10^2}$$

$$E = 5 \times (10^5)^{-3} \times 8 \times 10^7 = 5 \times 10^{-15} \times 8 \times 10^7 = 40 \times 10^{-8} = \underline{4,0 \times 10^{-7}}$$

Exercice 3

$$F = -3x^2 - (x^2 + 7x - 9) + 6x = -3x^2 - x^2 - 7x + 9 + 6x = \underline{-4x^2 - x + 9}$$

$$G = (-3x + 7) - (8x - 2) + (6x + 4) = -3x + 7 - 8x + 2 + 6x + 4 = \underline{-5x + 13}$$

Exercice 4

$$H = x(-5x + 5) + 2(x - 1) = -5x^2 + 5x + 2x - 2 = \underline{-5x^2 + 7x - 2}$$

$$I = (8x - 6)(6x - 2) = 48x^2 - 16x - 36x + 12 = \underline{48x^2 - 52x + 12}$$

$$J = (-3x + 7)(-5x + 4) = 15x^2 - 12x - 35x + 28 = \underline{15x^2 - 47x + 28}$$

$$K = (3x + 4)(5x - 2) - (20x - 12) = 15x^2 - 6x + 20x - 8 - 20x + 12 = \underline{15x^2 - 6x + 4}$$

ГЕОМЕТРИЕ

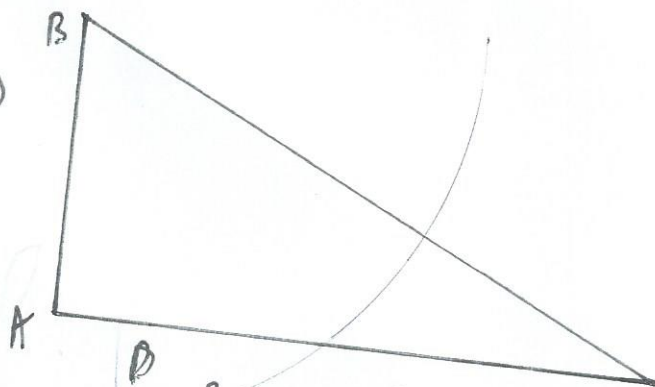
Exercice 1

$$EK^2 = KG^2 - EG^2 = 53^2 - 11^2 = 2809 - 121 = 2688 \Rightarrow EK = \sqrt{2688} \approx 51,8 \text{ m} \approx \underline{5 \text{ dam}}$$

$$FI^2 = IF^2 + IT^2 = 15^2 + 10^2 = 225 + 100 = 325 \Rightarrow FI = \sqrt{325} \approx \underline{2 \text{ dam}}$$

Exercice 2

1) a)



$$AB^2 = 15,21 \text{ m}^2 \quad AC^2 = 64 \text{ m}^2 \quad BC^2 = 79,21 \text{ m}^2$$

$AB^2 + AC^2 = 15,21 + 64 = 79,21 = BC^2$, donc d'après la réciproque

b) du Théorème de Pythagore, ABC est un triangle rectangle en A.

2) a) Voir dessin dessiné en page 1

$$b) BD^2 = 28,09 \text{ et } CD^2 = 7,1^2 = 50,41$$

$$BD^2 + CD^2 = 28,09 + 50,41 = 78,50 \neq 79,21$$

De $BD^2 + CD^2 \neq BC^2$, donc BCD n'est pas
un triangle rectangle.