

Correction du contrôle 3 :

Exercice 1 :

$$A = -8 + (6,5 - 3) - (5 - 9)$$

$$A = -8 + 3,5 - (-4)$$

$$A = -8 + 3,5 + 4$$

$$A = -8 + 7,5$$

$$A = -0,5$$

$$B = 3(5-4) - 6(3+1) + 4(7-9)$$

$$B = 3 \times 1 - 6 \times 4 + 4 \times (-2)$$

$$B = 3 - 24 + (-8)$$

$$B = 3 + (-32)$$

$$B = -29$$

Exercice 2 :

$$C = x^2 - 3z$$

$$C = (-5)^2 - 3 \times 2$$

$$C = 25 - 6$$

$$C = 19$$

Exercice 3 :

$$1) \frac{2\pi}{3} \simeq 2,094$$

$$3\sqrt{7} - 5 \simeq 2,937$$

Exercice 4 :

$$D = 3 \times 10^2 \times 313 \times 10^{-6} \times 125 \times 10^7$$

$$D = (3 \times 313 \times 125) \times (10^2 \times 10^{-6} \times 10^7)$$

$$D = 117375 \times 10^{2-6+7}$$

$$D = 117375 \times 10^3$$

1) $D = 117\,375\,000$ notation décimale

2) $D = 1,17375 \times 10^8$ notation scientifique

Exercice 5 :

$$E = 3x - y$$

$$E = 3 \times \frac{1}{2} - \frac{3}{7}$$

$$E = \frac{3}{2} - \frac{3}{7}$$

$$E = \frac{21}{14} - \frac{6}{14}$$

$$E = \frac{15}{14}$$

$$H = x + y$$

$$H = \frac{1}{2} + \frac{3}{7}$$

$$H = \frac{7}{14} + \frac{6}{14}$$

$$H = \frac{13}{14}$$

$$F = x \times y$$

$$F = \frac{1}{2} \times \frac{3}{7}$$

$$F = \frac{3}{14}$$

$$I = \frac{x}{y}$$

$$I = \frac{1}{2} : \frac{3}{7}$$

$$I = \frac{1}{2} \times \frac{7}{3}$$

$$I = \frac{7}{6}$$

$$G = 2 - y$$

$$G = 2 - \frac{3}{7}$$

$$G = \frac{14}{7} - \frac{3}{7}$$

$$G = \frac{11}{7}$$

Exercice 6 :

1) a) 75 min = 1 h 15 min ; 130 min = 2 h 10 min ; 212 min = 3 h 32 min ;

370 min = 6 h 10 min .

b) 75 min = $\frac{75}{60}$ h = 1,25 h

130 min = $\frac{130}{60}$ h $\simeq 2,17$ h

370 min = $\frac{370}{60}$ h $\simeq 6,17$ h

212 min = $\frac{212}{60}$ h $\simeq 3,53$ h

2) 2,3 h = 2 h (0,3 $\times$ 60) min = 2 h 18 min

5,2 h = 5 h (0,2 $\times$ 60) min = 5 h 12 min

Exercice 7 : 2,41 > 2,4 > 0 > -2,5 > -2,52 > -3,2