

Exercice 1 : Corrigé

$$A = 11 + 6\sqrt{2}$$

$$B = 5 + 2\sqrt{6}$$

$$C = 6 - 2\sqrt{5}$$

$$D = 16 - 16\sqrt{3}$$

$$E = -1$$

$$F = -11$$

$$G = 14$$

$$H = 6$$

$$I = 58 - 24\sqrt{5}$$

$$J = 10\sqrt{3} - 45$$

$$K = 24\sqrt{3}$$

$$L = 13\sqrt{3} - 12$$

Exercice 2 : Corrigé

a) $a = 3 \times 2\sqrt{5} + 3\sqrt{5} = 9\sqrt{5}$

$$b = \sqrt{36 \times 5} - 3\sqrt{5} = 6\sqrt{5} - 3\sqrt{5} = 3\sqrt{5}$$

b) $a \times b = 9\sqrt{5} \times 3\sqrt{5} = 27 \times 5 = 135$

$$\frac{a}{b} = \frac{9\sqrt{5}}{3\sqrt{5}} = 3$$