

Exercices L^AT_EX

1. $\frac{18}{12} = \frac{18 \div 6}{12 \div 6} = \frac{3}{2}$

2. $\sqrt{48} = \sqrt{16 \times 3} = \sqrt{16} \times \sqrt{3} = 4\sqrt{3}$

3. $3 \cdot 10^4 \times 5 \cdot 10^{-5}$

4. $BC^2 = AB^2 + AC^2$ donc $AB^2 = AC^2 - BC^2$

5. $\sin \widehat{BAC} = \frac{5}{13}$ donc $\widehat{BAC} \approx 23^\circ$

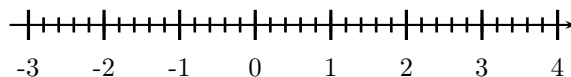
6. Trouver les valeurs cachées :

$$\begin{array}{r} \\ \\ + \\ \hline \end{array}$$

7.

$$(a+b) \times (a-b) = a^2 - ab + ab - b^2$$

8.



9.

$$\begin{aligned} (a+b)^2 &= (a+b)(a+b) \\ &= a^2 + ab + ab + b^2 \\ &= a^2 + 2ab + b^2 \end{aligned}$$

10. $a^n = \underbrace{a \times a \times \dots \times a}_{n \text{ fois}}$

11. D'après le théorème de Thalès on a :

$$\frac{AB}{AM} = \frac{AC}{AN} = \frac{CB}{MN}$$

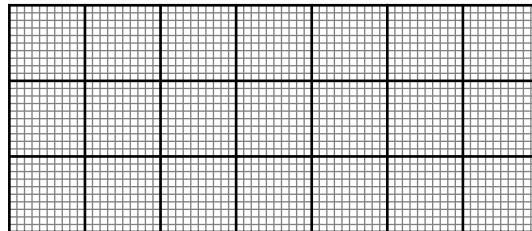
12.

$$\begin{cases} 3x + 2y = 5 \\ 5x - 4y = 1 \end{cases} \text{ donne } \boxed{x=1 \text{ et } y=1}$$

13.

	A	B	C	D
E	1	2	π	$\sqrt{5}$
F	3	4	$\frac{\alpha}{5}$	$\sum_{k=0}^{+\infty} \ln(1+k^2)$

14.



15.

