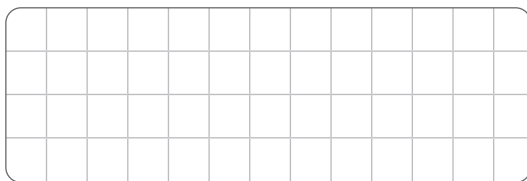
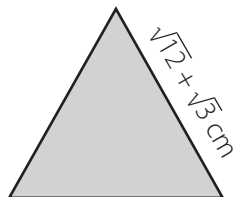


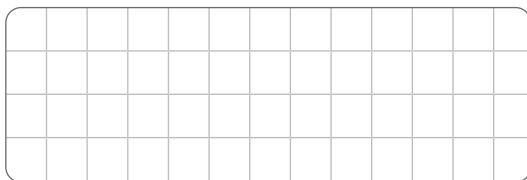
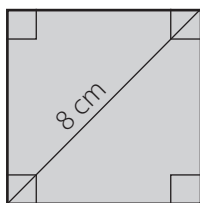
Operaciones con números reales

1. Calcula el perímetro de los siguientes polígonos:

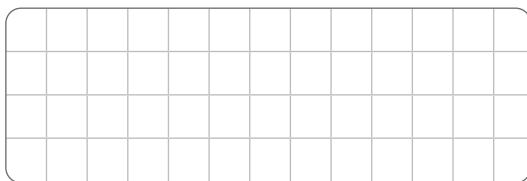
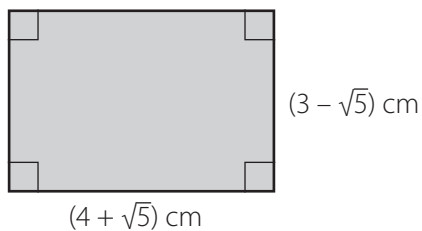
a. El triángulo equilátero.



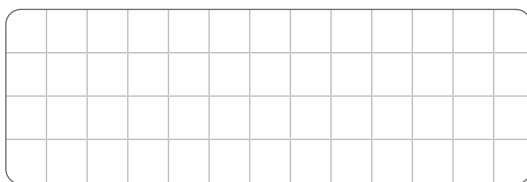
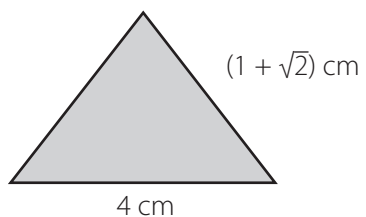
b. El cuadrado, conociendo su diagonal.



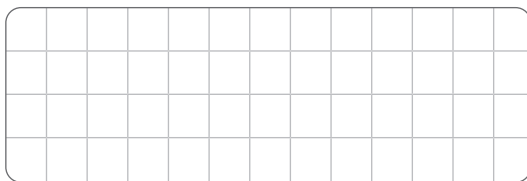
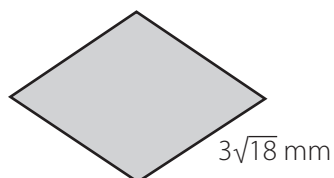
c. El rectángulo.



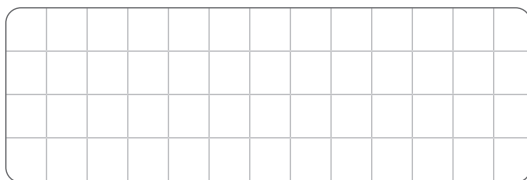
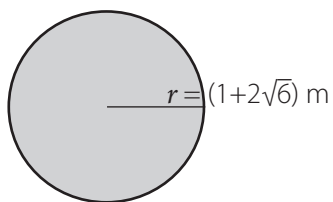
d. El triángulo isósceles.



e. El rombo.

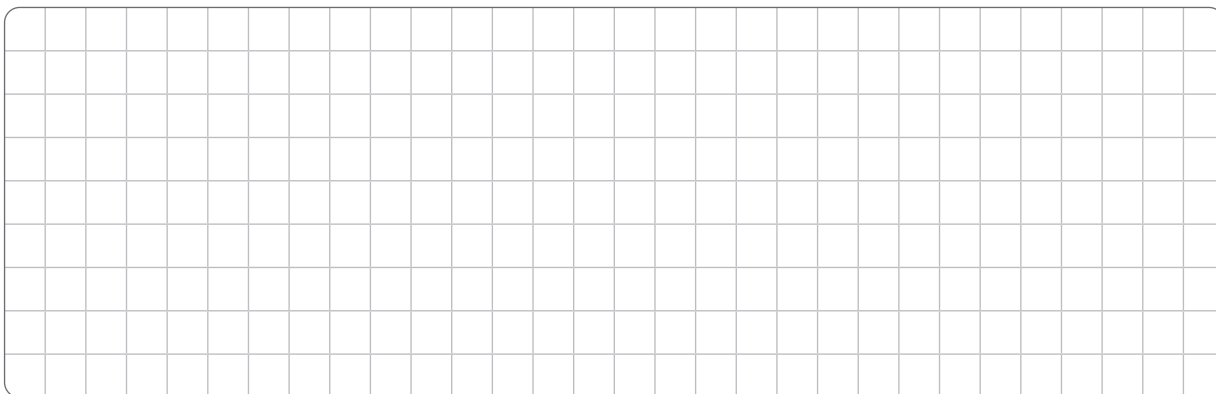


- f. El círculo con radio de longitud r .

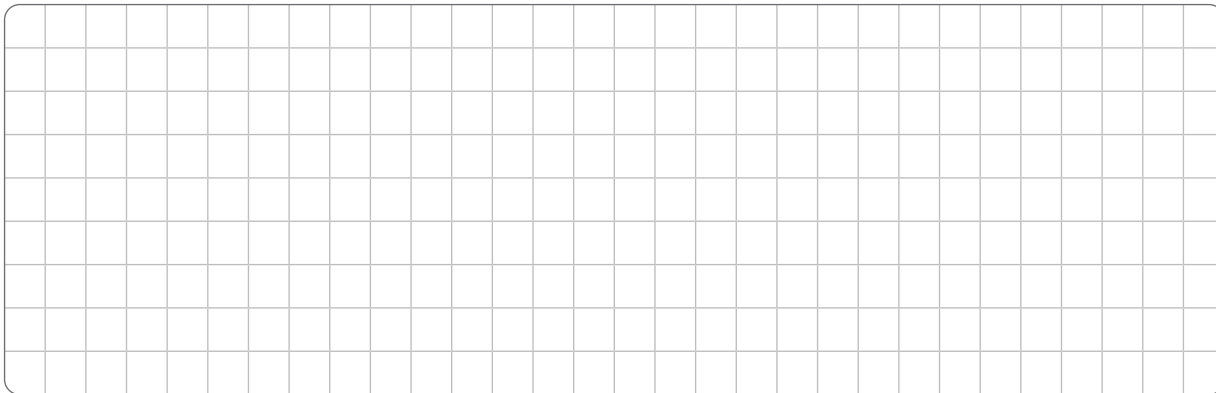


2. Si $t = \sqrt{2 + \sqrt{3}} - \sqrt{2 + \sqrt{3}}$, calcula:

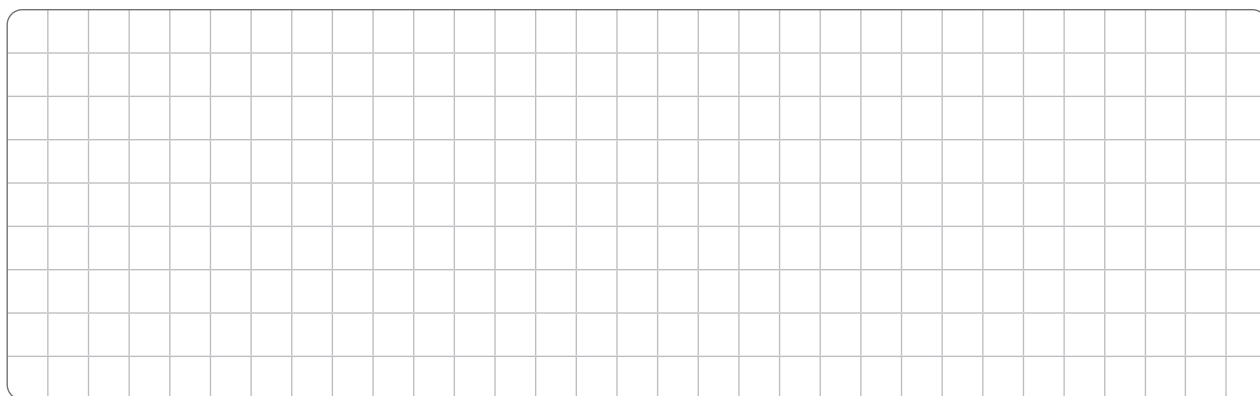
- a. t^2



- b. $t(t - 1)$



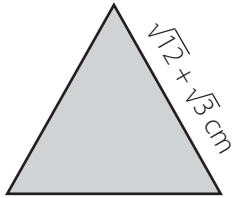
3. Sean $x, y, z > 0$, tales que $x^n + y^n = z^n$ con $y = 15, z = 16$ y $n = 2$. Determina el valor $d x$.



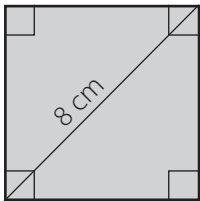
Operaciones con números reales

1. Calcula el perímetro de los siguientes polígonos:

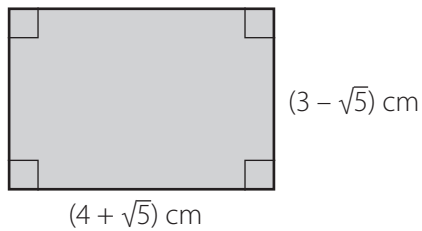
a. El triángulo equilátero.



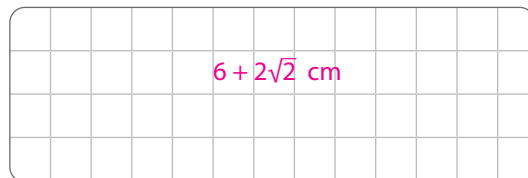
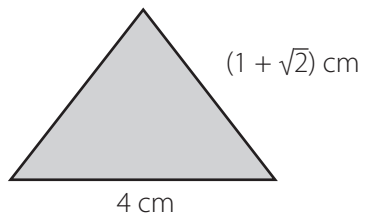
b. El cuadrado, conociendo su diagonal.



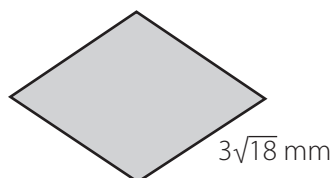
c. El rectángulo.



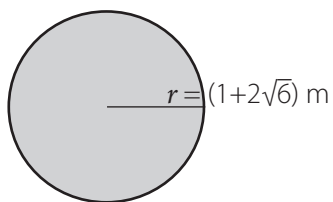
d. El triángulo isósceles.



e. El rombo.



- f. El círculo con radio de longitud r .



$$(2 + 4\sqrt{6})\pi \text{ m}$$

2. Si $t = \sqrt{2 + \sqrt{3}} - \sqrt{2 - \sqrt{3}}$, calcula:

- a. t^2

$$\begin{aligned} t^2 &= (\sqrt{2 + \sqrt{3}} - \sqrt{2 - \sqrt{3}})^2 = (2 + \sqrt{3}) + (2 - \sqrt{3}) - 2\sqrt{(2 + \sqrt{3})(2 - \sqrt{3})} \\ &= 4 - 2\sqrt{4 - 3} \\ &= 4 - 2 \\ &= 2 \end{aligned}$$

- b. $t(t - 1)$

$$\begin{aligned} t(t - 1) &= (\sqrt{2 + \sqrt{3}} - \sqrt{2 - \sqrt{3}})(\sqrt{2 + \sqrt{3}} - \sqrt{2 - \sqrt{3}} - 1) \\ &= 2 - (\sqrt{2 + \sqrt{3}} + \sqrt{2 - \sqrt{3}}) \end{aligned}$$

3. Sean $x, y, z > 0$, tales que $x^n + y^n = z^n$ con $y = 15, z = 16$ y $n = 2$. Determina el valor de x .

$$\begin{aligned} x^n + y^n &= z^n \Rightarrow x^2 + 15^2 = 16^2 \\ x &= \sqrt{16^2 - 15^2} \\ x &= \sqrt{226 - 225} = \sqrt{1} \end{aligned}$$