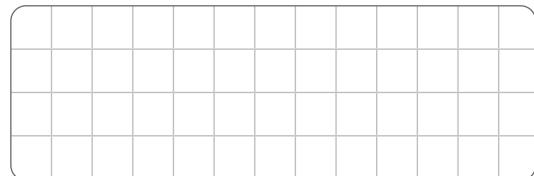
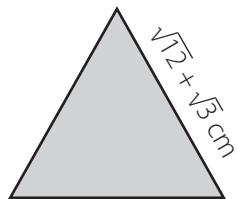


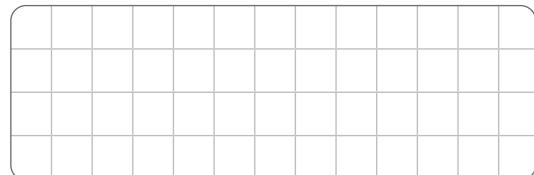
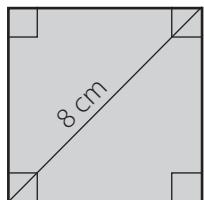
Operaciones con números reales

1. Calcula el perímetro de los siguientes polígonos:

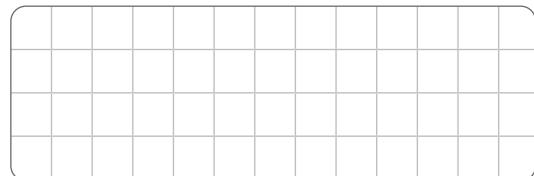
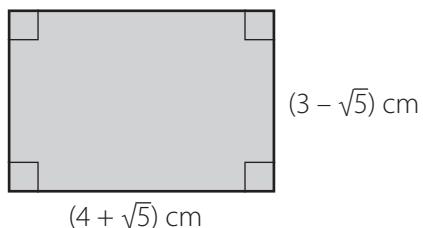
- a. El triángulo equilátero.



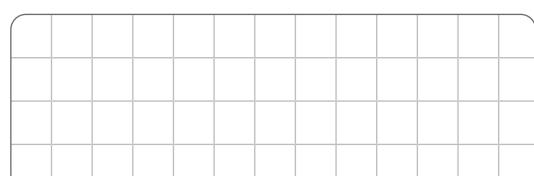
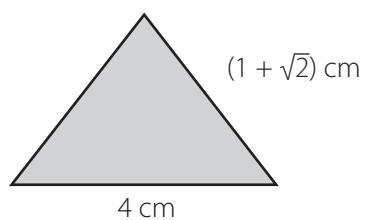
- b. El cuadrado, conociendo su diagonal.



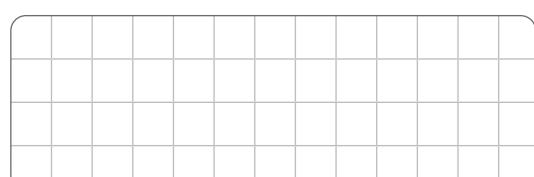
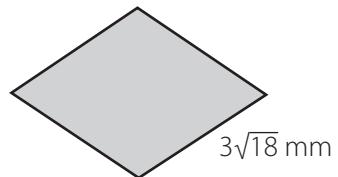
- c. El rectángulo.



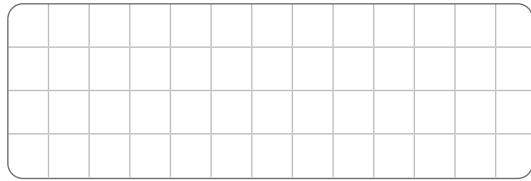
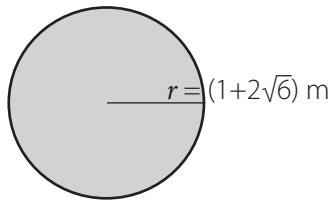
- d. El triángulo isósceles.



- e. El rombo.



- f. El círculo con radio de longitud r .



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

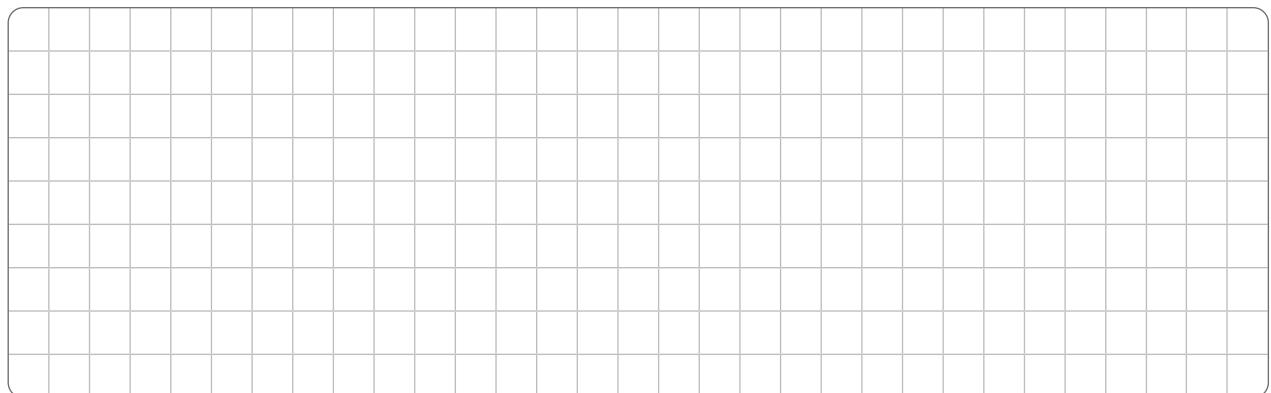
a. t^2



b. $t(t - 1)$



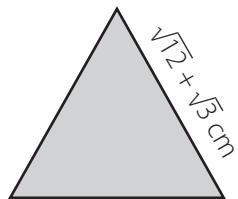
3. Sean $x, y, z > 0$, tales que $x^n + y^n = z^n$ con $y = 15$, $z = 16$ y $n = 2$. Determina el valor de x .



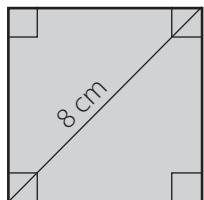
Operaciones con números reales

1. Calcula el perímetro de los siguientes polígonos:

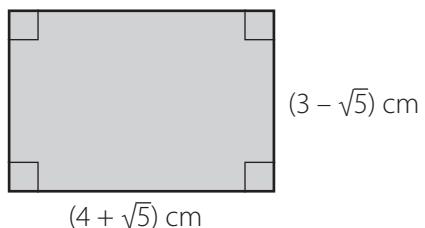
- a. El triángulo equilátero.



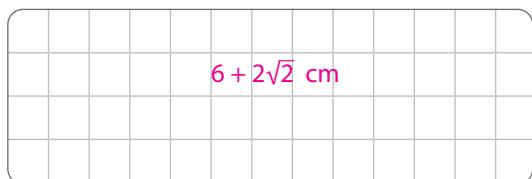
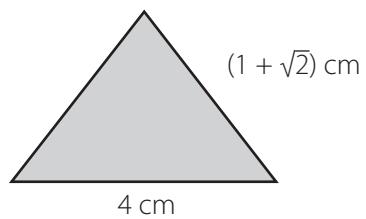
- b. El cuadrado, conociendo su diagonal.



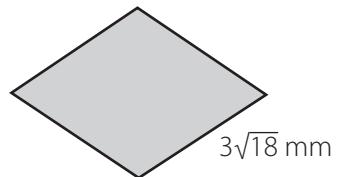
- c. El rectángulo.



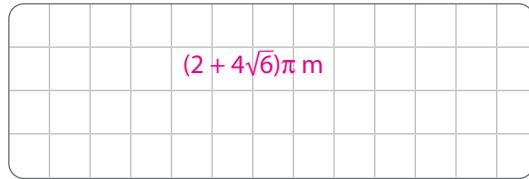
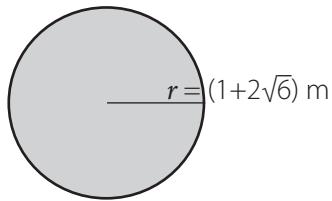
- d. El triángulo isósceles.



- e. El rombo.



f. El círculo con radio de longitud r .



2. 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 .

$$\begin{aligned}x^n + y^n &= z^n \Rightarrow x^2 + 15^2 = 16^2 \\x &= \sqrt{16^2 - 15^2} \\x &= \sqrt{256 - 225} = \sqrt{31}\end{aligned}$$