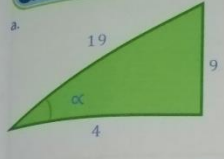


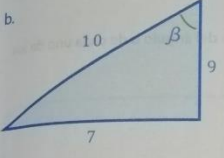
# Modulo

**Matemáticas**

**1** Hallar las razones trigonométricas.

a. 

$$\begin{aligned} \text{Sen } \alpha &= 0.47 \\ \text{Cos } \alpha &= 0.21 \\ \text{Tan } \alpha &= 2.24 \\ \text{Csc } \alpha &= 2.13 \\ \text{Sec } \alpha &= 4.76 \\ \text{Cot } \alpha &= 2.24 \end{aligned}$$

b. 

$$\begin{aligned} \text{Sen } \beta &= 0.9 \\ \text{Cos } \beta &= -0.35 \\ \text{Tan } \beta &= -2.57 \\ \text{Csc } \beta &= 1.11 \\ \text{Sec } \beta &= -2.87 \\ \text{Cot } \beta &= -1.11 \end{aligned}$$

**1** Realizar las siguientes operaciones.

a.  $\text{Cot } 30^\circ + \text{Tan } 30^\circ = 1.732 + 0.577 = 2.309$

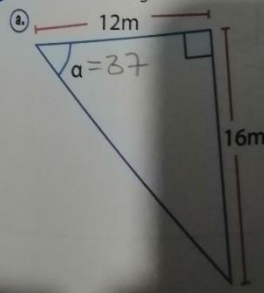
b.  $\text{Sec } 30^\circ - \text{Cot } 60^\circ = 1.1547 - 0.5773 = 0.5774$

c.  $\text{Sen } 30^\circ + \text{Cos } 30^\circ = 0.5 + 0.866 = 1.366$

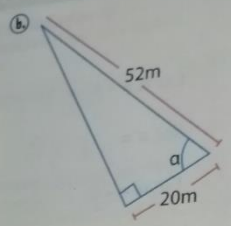
d.  $\text{Cos } 60^\circ + \text{Tan } 45^\circ = 0.5 + 1 = 1.5$

e.  $\text{Cot } 60^\circ + \text{Csc } 60^\circ = 0.5773 + 1.1547 = 1.732$

**2** Halla las razones trigonométricas del ángulo  $\alpha$  en cada triángulo rectángulo.

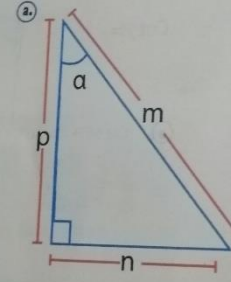
a. 

$$\begin{aligned} \text{Sen } \alpha &= 0.6 \\ \text{Cos } \alpha &= 0.8 \\ \text{Tan } \alpha &= 0.75 \\ \text{Csc } \alpha &= 1.667 \\ \text{Sec } \alpha &= 1.25 \\ \text{Cot } \alpha &= 1.333 \end{aligned}$$

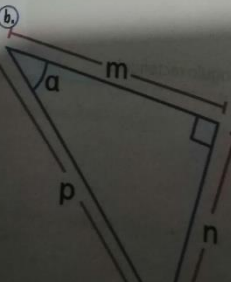
b. 

$$\begin{aligned} \text{Sen } \alpha &= 0.358 \\ \text{Cos } \alpha &= 0.933 \\ \text{Tan } \alpha &= 0.383 \\ \text{Csc } \alpha &= 2.790 \\ \text{Sec } \alpha &= 1.071 \\ \text{Cot } \alpha &= 2.605 \end{aligned}$$

**3** Escribe, en función de  $m$ ,  $n$  y  $p$ , el seno, el coseno y la tangente del ángulo  $\alpha$  de cada uno de los triángulos rectángulos que se muestran a continuación.

a. 

$$\begin{aligned} p &= 0.707 \\ m &= 0.7071 \\ n &= 1 \end{aligned}$$

b. 

$$\begin{aligned} p &= 0.939 \\ m &= 0.342 \\ n &= 2.747 \end{aligned}$$