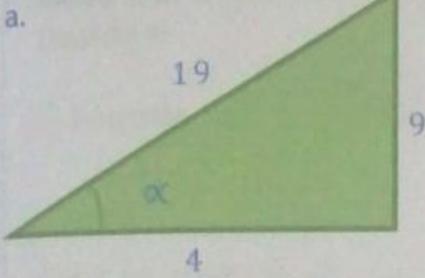




1 Hallar las razones trigonométricas.



$$\text{Sen } \alpha = \frac{9}{19}$$

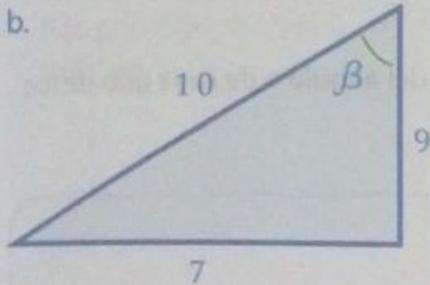
$$\text{Csc } \alpha = \frac{19}{9}$$

$$\text{Cos } \alpha = \frac{4}{19}$$

$$\text{Sec } \alpha = \frac{19}{4}$$

$$\text{Tan } \alpha = \frac{9}{4}$$

$$\text{Cot } \alpha = \frac{4}{9}$$



$$\text{Sen } \beta = \frac{7}{10}$$

$$\text{Csc } \beta = \frac{10}{7}$$

$$\text{Cos } \beta = \frac{9}{10}$$

$$\text{Sec } \beta = \frac{10}{9}$$

$$\text{Tan } \beta = \frac{7}{9}$$

$$\text{Cot } \beta = \frac{9}{7}$$

1 Realizar las siguientes operaciones.

a) $\text{Cot } 30^\circ + \text{Tan } 30^\circ$

$$1.44$$

c) $\text{Sen } 30^\circ + \text{Cos } 30^\circ$

$$1.35$$

e) $\text{Cot } 60^\circ + \text{Csc } 60^\circ$

$$1$$

b) $\text{Sec } 30^\circ - \text{Cot } 60^\circ$

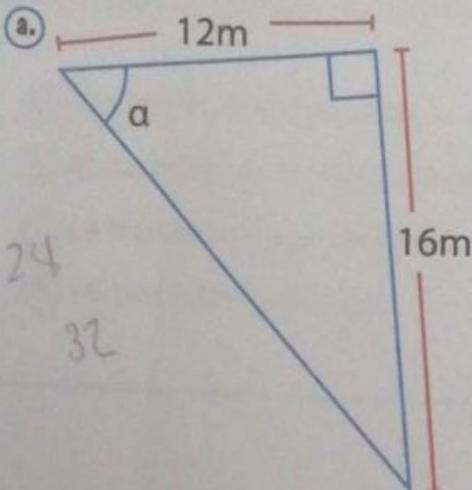
$$0$$

d) $\text{Cos } 60^\circ + \text{Tan } 45^\circ$

$$1.5$$



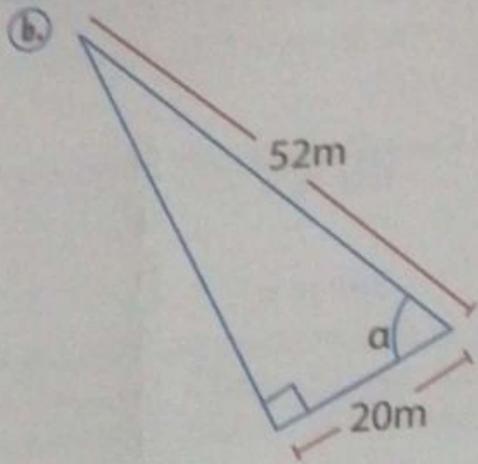
2 Halla las razones trigonométricas del ángulo α en cada triángulo rectángulo.



$$\text{Sen} : 16/20 = 0.4$$

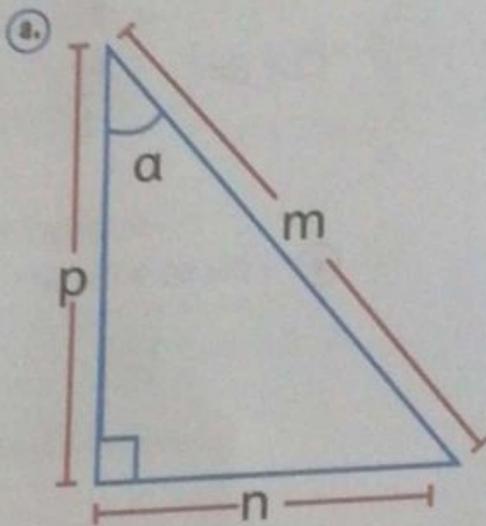
$$\text{Cos} : 12/20 = 0.3$$

$$\text{Tan} : 16/12 = 1.33$$

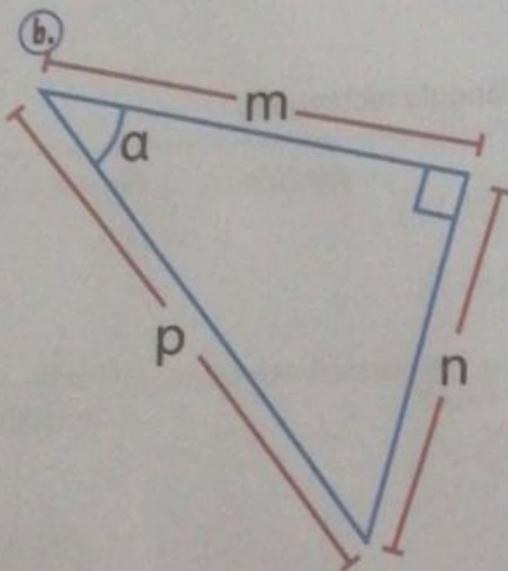


$$\begin{aligned} \text{Sen} &= 48/52 = 0,92 \\ \text{Cos} &= 20/52 = 0,38 \\ \text{tan} &= 48/20 = 2,4 \end{aligned}$$

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



$$\begin{aligned} \text{Cos} &= p/m \\ \text{Sen} &= n/m \\ \text{tan} &= n/p \end{aligned}$$



$$\begin{aligned} \text{Cos} &= m/p \\ \text{Sen} &= n/p \\ \text{tan} &= n/m \end{aligned}$$