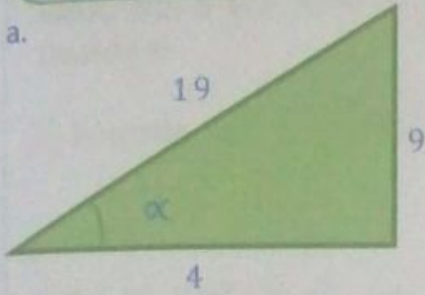




1 Hallar las razones trigonométricas.

a.



Sen $\alpha =$

$\frac{9}{19}$

Csc $\alpha =$

$\frac{19}{9}$

Cos $\alpha =$

$\frac{4}{19}$

Sec $\alpha =$

$\frac{19}{4}$

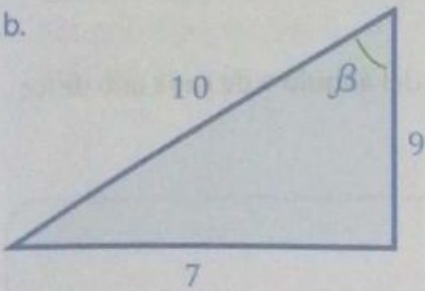
Tan $\alpha =$

$\frac{9}{4}$

Cot $\alpha =$

$\frac{4}{9}$

b.



Sen $\beta =$

$\frac{9}{10}$

Csc $\beta =$

$\frac{10}{9}$

Cos $\beta =$

$\frac{7}{10}$

Sec $\beta =$

$\frac{10}{7}$

Tan $\beta =$

$\frac{9}{7}$

Cot $\beta =$

$\frac{7}{9}$

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

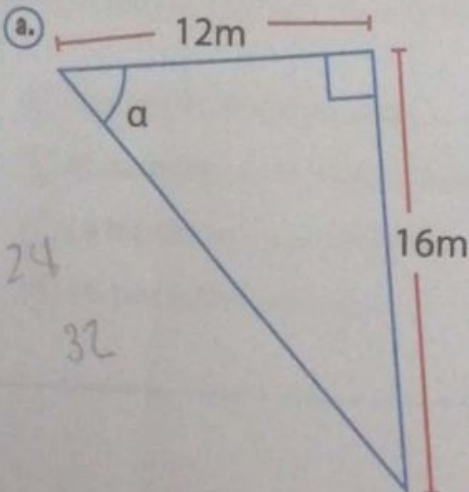
0

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

1,5



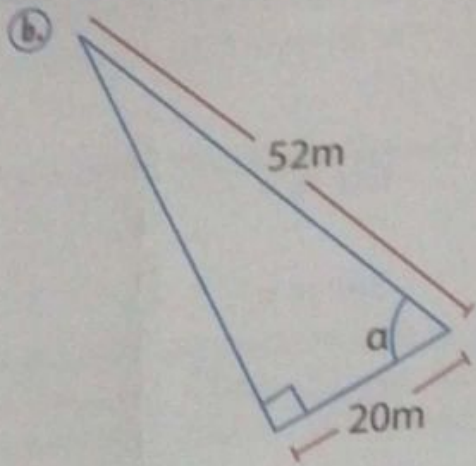
2 Halla las razones trigonométricas del ángulo α en cada triángulo rectángulo.



Sen: $16/40 = 0,4$

Cos: $12/40 = 0,3$

Tan: $16/12 = 1,33$

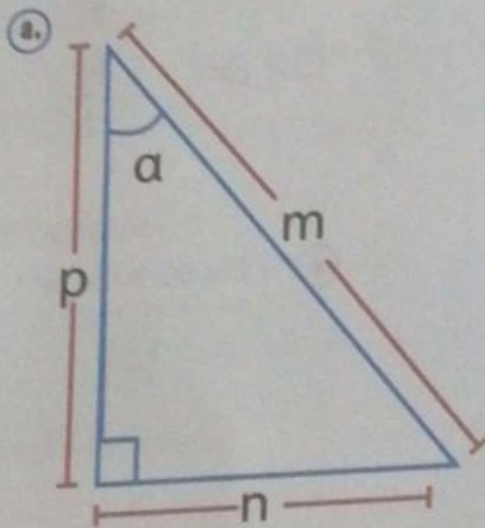


$$\text{Sen} \alpha = 48/52 = 0,92$$

$$\text{Cos} \alpha = 20/52 = 0,38$$

$$\text{tan} \alpha = 48/20 = 2,4$$

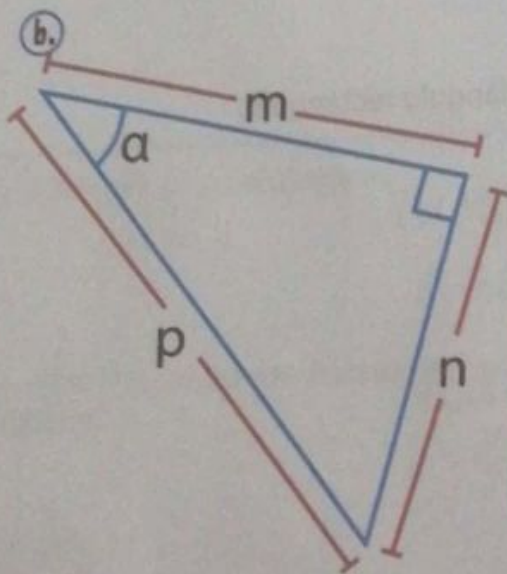
3. Escribe, en función de m, n y p, el seno, el coseno y la tangente del ángulo α de cada uno de los triángulos rectángulos que se muestran a continuación.



$$\text{Cos} \alpha = p/m$$

$$\text{Sen} \alpha = n/m$$

$$\text{tan} \alpha = n/p$$



$$\text{Cos} \alpha = m/p$$

$$\text{Sen} \alpha = n/p$$

$$\text{tan} \alpha = n/m$$