

$\text{Sen} = \frac{CO}{h} = \frac{9}{44} = 0.47$
 $\text{Cos} = \frac{CA}{h} = \frac{4}{19} = 0.21$
 $\text{Tan} = \frac{CA}{CO} = \frac{9}{4} = 2.25$
 $\text{Csc} = \frac{h}{CO} = \frac{19}{4} = 4.75$
 $\text{Sec} = \frac{h}{CA} = \frac{19}{4} = 4.75$
 $\text{Cot} = \frac{CO}{CA} = \frac{4}{9} = 0.44$

$\text{Sen} = \frac{CO}{h} = \frac{9}{10} = 0.9$
 $\text{Cos} = \frac{CA}{h} = \frac{3}{10} = 0.3$
 $\text{Tan} = \frac{CA}{CO} = \frac{9}{3} = 3$
 $\text{Csc} = \frac{h}{CO} = \frac{10}{9} = 1.11$
 $\text{Sec} = \frac{h}{CA} = \frac{10}{3} = 3.33$
 $\text{Cot} = \frac{CA}{CO} = \frac{3}{9} = 0.33$

2) Realizar las siguientes operaciones:
 a) $\text{Cot } 30^\circ + \text{Tan } 30^\circ$
 $\sqrt{3} + \frac{1}{\sqrt{3}} = 2.309$

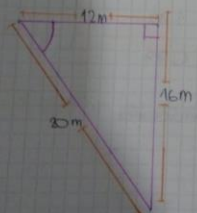
b) $\text{Sec } 30^\circ - \text{Cot } 60^\circ$
 $\frac{2\sqrt{3}}{3} - \frac{\sqrt{3}}{3} = 0.577$

c) $\text{Sen } 30^\circ + \text{Cos } 80^\circ$
 $\frac{1}{2} + \frac{\sqrt{3}}{2} = 1.366$

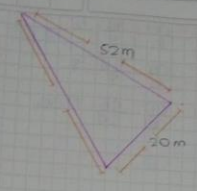
d) $\text{Cot } 60^\circ + \text{Tan } 45^\circ$
 $\frac{1}{\sqrt{3}} + 1 = 1.577$

e) $\text{Cot } 60^\circ + \text{Csc } 60^\circ$
 $\frac{1}{\sqrt{3}} + 2\sqrt{3} = 4.041$

3) Hallar las razones trigonométricas del ángulo α en cada triángulo rectángulo

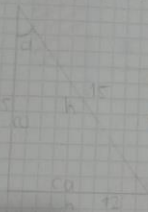


$\text{Sen} = \frac{CO}{h} = \frac{16}{20} = 0.8$
 $\text{Cos} = \frac{CA}{h} = \frac{12}{20} = 0.6$
 $\text{Tan} = \frac{CO}{CA} = \frac{16}{12} = 1.33$
 $\text{Csc} = \frac{h}{CO} = \frac{20}{16} = 1.25$
 $\text{Sec} = \frac{h}{CA} = \frac{20}{12} = 1.66$
 $\text{Cot} = \frac{CA}{CO} = \frac{12}{16} = 0.75$

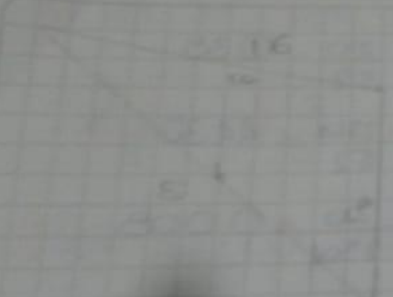


$\text{Sen} = \frac{CO}{h} = \frac{20}{52} = 0.38$
 $\text{Cos} = \frac{CA}{h} = \frac{44}{52} = 0.846$
 $\text{Tan} = \frac{CO}{CA} = \frac{20}{44} = 0.455$
 $\text{Csc} = \frac{h}{CO} = \frac{52}{20} = 2.6$
 $\text{Sec} = \frac{h}{CA} = \frac{52}{44} = 1.182$
 $\text{Cot} = \frac{CA}{CO} = \frac{44}{20} = 2.2$

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



$\text{Sen} = \frac{CO}{h} = \frac{15}{19}$
 $\text{Cos} = \frac{CA}{h} = \frac{12}{19}$
 $\text{Tan} = \frac{CO}{CA} = \frac{15}{12} = 1.25$



$\text{Sen} = \frac{CO}{h} = \frac{16}{28} = 0.571$
 $\text{Cos} = \frac{CA}{h} = \frac{24}{28} = 0.857$
 $\text{Tan} = \frac{CO}{CA} = \frac{16}{24} = 0.667$