Sine (sin) / Cosine (cos) / Tangent (tan)

To remember the trigonometric ratio we can use the following saying:

Sin = OPP Co

Cos = adj

Tan = $\frac{opp}{adj}$

Using the triangle below express sine-cosine-tangent.

obj 6 hyp

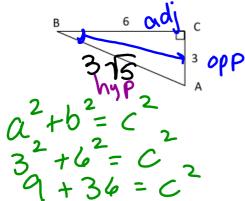
obj 7 7 3 13

re-tangent. $\sin A = \frac{3}{6} = \frac{1}{2} \sin B = \frac{3}{6} = \frac{1}{2}$ $\cos A = 3\sqrt{3} = \frac{1}{2} = \frac{1}{2}$ $\tan A = \frac{3}{6} = \frac{1}{2} =$

 $3^{2} + x^{2} = 6^{2}$ $9 + x^{2} = 36$ $1 \times x^{2} = 127$ $1 \times x^{2} = 36$ $1 \times x^{2} = 36$

 $\frac{3\sqrt{3}}{3\sqrt{9}} = \frac{8\sqrt{3}}{9} = \frac{3\sqrt{3}}{3}$

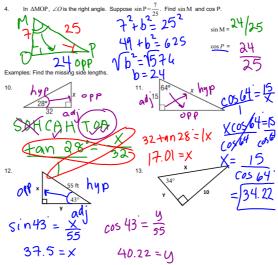
2. Using the triangle below express sine-cosine-tangent. NO DECIMALS!



sin A = $\frac{6}{3}$ $\frac{2}{5}$ $\frac{2}{5}$ $\frac{5}{5}$ sin B = $\frac{3}{3}$ $\frac{5}{5}$ $\frac{5}{5}$ cos A = $\frac{5}{3}$ $\frac{5}{5}$ $\frac{5}{5}$ tan B = $\frac{6}{3}$ $\frac{3}{5}$ $\frac{5}{5}$ $\frac{3}{5}$ $\frac{5}{5}$ $\frac{3}{5}$ $\frac{$

The cos 60° is 1/2. What does this mean? Your explanation should include something about the sides of a right triangle. $\begin{array}{c} \text{CoS} & \text{O} = \\ \text{O} & \text{O} \end{array}$

SOHCAHTOA Notes March 16, 2016



15. A 15-foot ladder leans against a wall. The angle of elevation (the angle between the ladder and ground) is 70°. How far up the wall does the ladder reach?

