

MAY 22/08

TRIGONOMETRY

SOHCAHTOA

$\sin = \frac{OPP}{HYP}$ $\cos = \frac{ADJ}{HYP}$ $\tan = \frac{OPP}{ADJ}$

May 22-9:28 AM

TANGENT

$TAN = \frac{OPP}{ADJ}$
 $TAN P = \frac{5}{8} = 0.625$
 $\angle P = TAN^{-1}(0.625)$
 $\angle P = 32^\circ$

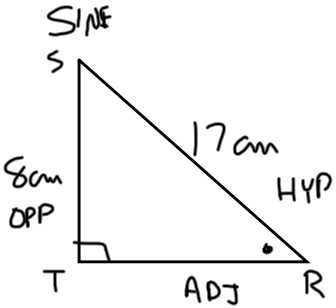
FIND KL
 $TAN = \frac{OPP}{ADJ}$
 $\frac{TAN 30^\circ}{1} = \frac{10}{X}$
 ~~$\frac{TAN 30^\circ \times}{TAN 30^\circ} = \frac{10}{TAN 30^\circ}$~~
 $X = 17.3 \text{ m}$

X

$\frac{10}{3} = \frac{10}{3}$

May 22-9:35 AM

SINE



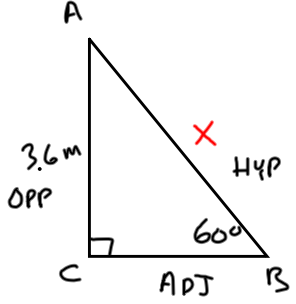
$$\sin = \frac{\text{OPP}}{\text{HYP}}$$

$$\sin R = \frac{8}{17} = 0.47$$

$$\angle R = \sin^{-1}(0.47)$$

$$\angle R = 28^\circ$$

FIND AB



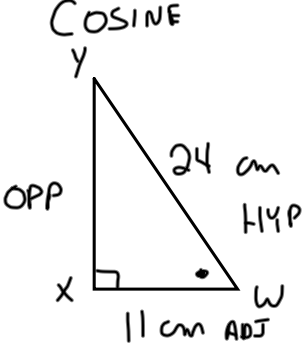
$$\sin = \frac{\text{OPP}}{\text{HYP}}$$

$$\frac{\sin 60^\circ}{1} = \frac{3.6}{X}$$
~~$$\frac{\sin 60^\circ X}{\sin 60^\circ} = \frac{3.6}{\sin 60^\circ}$$~~

$$X = 4.2 \text{ m}$$

May 22-9:45 AM

COSINE



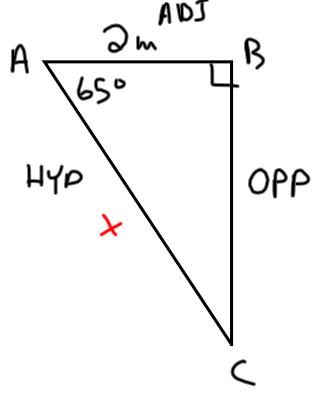
$$\cos = \frac{\text{ADJ}}{\text{HYP}}$$

$$\cos W = \frac{11}{24} = 0.46$$

$$\angle W = \cos^{-1}(0.46)$$

$$\angle W = 63^\circ$$

FIND AC



$$\cos = \frac{\text{ADJ}}{\text{HYP}}$$

$$\frac{\cos 65^\circ}{1} = \frac{2}{X}$$
~~$$\frac{\cos 65^\circ X}{\cos 65^\circ} = \frac{2}{\cos 65^\circ}$$~~

$$X = 4.7 \text{ m}$$

May 22-9:50 AM