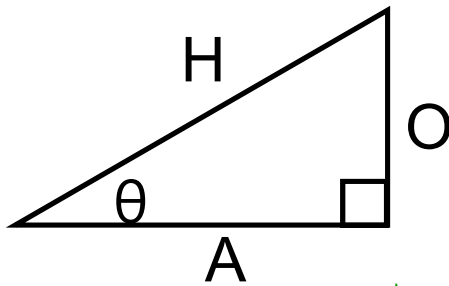
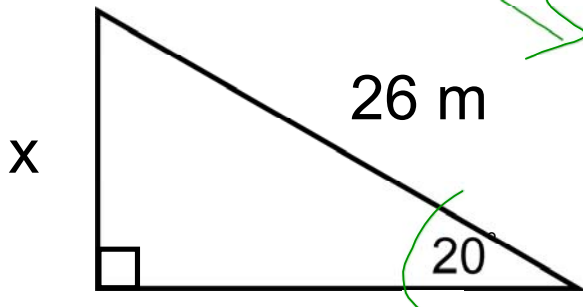


Sine



$$\sin \theta = \frac{O}{H}$$

SOH CAH TOA



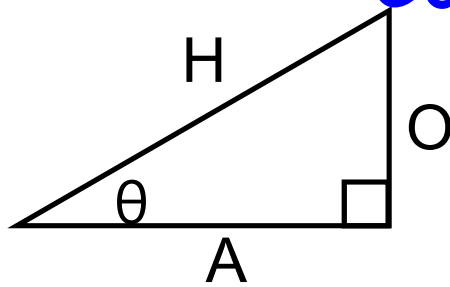
$\theta = 20^\circ$
 $O = x$
 A
 $H = 26m$

$$\sin \theta = \frac{O}{H}$$

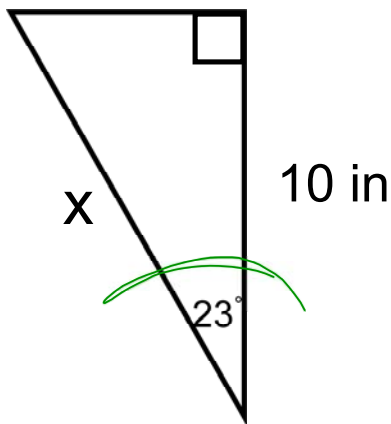
$$26 \times \sin 20^\circ = \frac{x}{26}$$

8.89
 $x = 8.9m$

Cosine

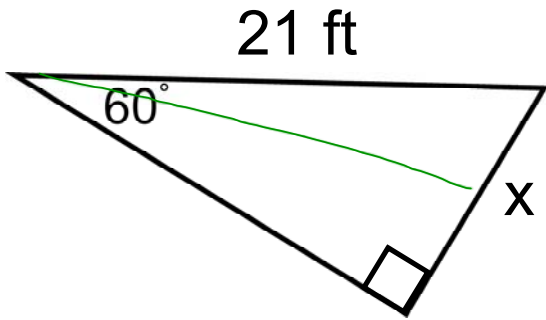


$$\cos \theta = \frac{A}{H}$$



~~$\theta = 23^\circ$~~
 ~~$\cos \theta = \frac{A}{H}$~~
 $A = 10$
 $H = X$
 $\cos 23^\circ = \frac{10}{X}$
 $\frac{10}{\cos 23^\circ} = X$
 $X = 10.9 \text{ in}$

SOH CAH TOA



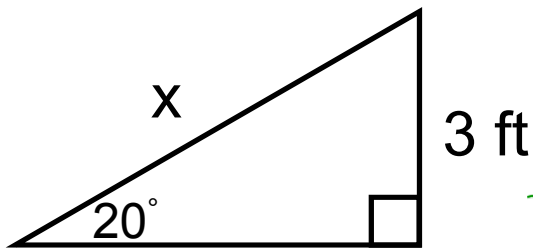
$$\frac{\theta = 60^\circ}{O = x}$$

$$\frac{H = 21 \text{ ft}}{A}$$

$$\sin \theta = \frac{O}{H}$$

$$21 \sin 60^\circ = \frac{x}{21}$$

$$21 \times \sin 60^\circ =$$



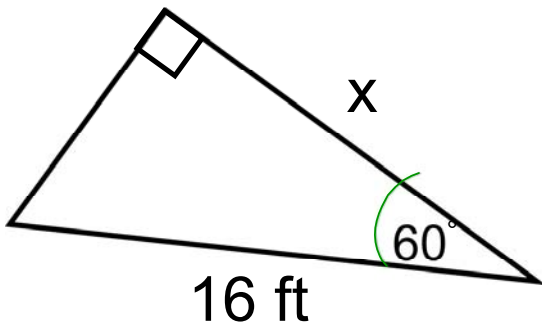
$$\frac{\theta = 20^\circ}{O = 3 \text{ ft}}$$

$$\frac{H = x}{A}$$

$$\sin \theta = \frac{O}{H}$$

$$\sin 20^\circ = \frac{3}{x}$$

$$3 = \sin 20^\circ \times x$$



$$\frac{\theta = 60^\circ}{O = x}$$

$$\frac{H = 16 \text{ ft}}{A}$$

$$\cos \theta = \frac{A}{H}$$

$$16 \cos 60^\circ = \frac{x}{16 \text{ ft}}$$

$$16 \times \cos 60^\circ =$$

~~8 ft~~