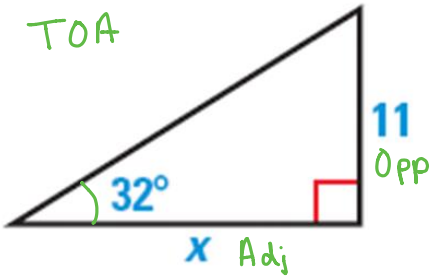
on calculator

EX: Find the value of x to the nearest tenth.



$\tan\theta = \frac{O}{A}$

$\tan 32 = \frac{11}{x}$

$x \cdot \tan 32 = \frac{11}{x} \cdot x$

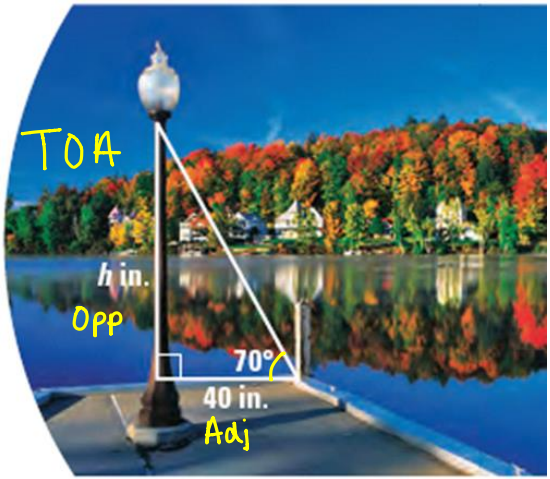
$\frac{x \cdot \tan 32}{\tan 32} = \frac{11}{\tan 32}$ ← Use tan button on calculator
- make sure you are in Degree mode

$x = 17.6$

- Enter: 11 / tan (32)

☆ Zoom if you need help!

EX: Find the height of the lamppost to the nearest tenth.



$\tan\theta = \frac{O}{A}$

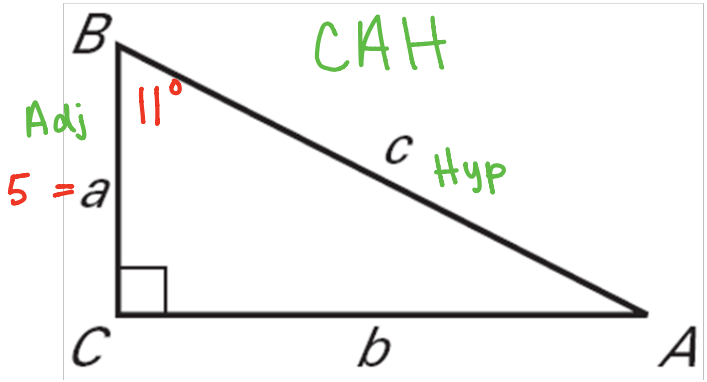
$\tan 70 = \frac{h}{40}$

$40 \cdot \tan 70 = \frac{h}{40} \cdot 40$ ← Enter: $40 \cdot \tan(70)$

$109.9 = h$

EX:

If $a = 5$ and $m \angle B = 11$, find c.



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

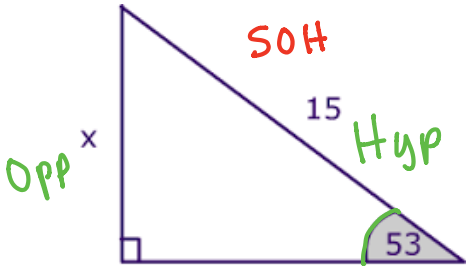
$$\cos 11 = \frac{5}{c}$$

$$c \cdot \cos 11 = \frac{5}{c} \cdot c$$

$$\frac{c \cdot \cos 11}{\cos 11} = \frac{5}{\cos 11}$$ ← cos button

$$c = 5.1$$

EX: Find the value of x to the nearest tenth.



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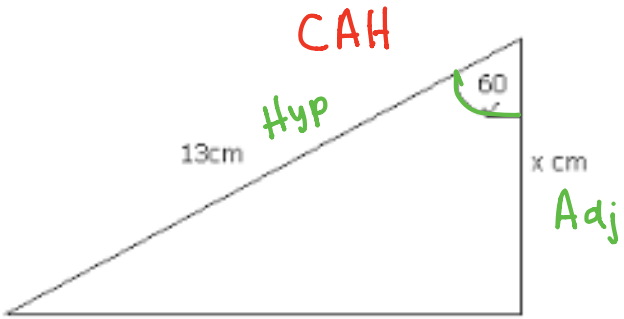
$$\sin\theta = \frac{O}{H}$$

$$\sin 53 = \frac{x}{15}$$

$$15 \cdot \sin 53 = \frac{x}{15} \cdot 15$$

$$12.0 = x$$



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

$$\cos 60 = \frac{x}{13}$$

$$13 \cdot \cos 60 = \frac{x}{13} \cdot 13$$

$$6.5 = x$$