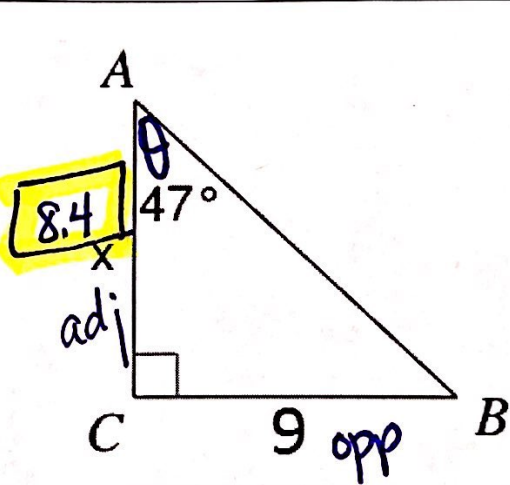


Finding Sides of Right Triangles

To find a side of a right triangle, you need to know at least one side and one angle.

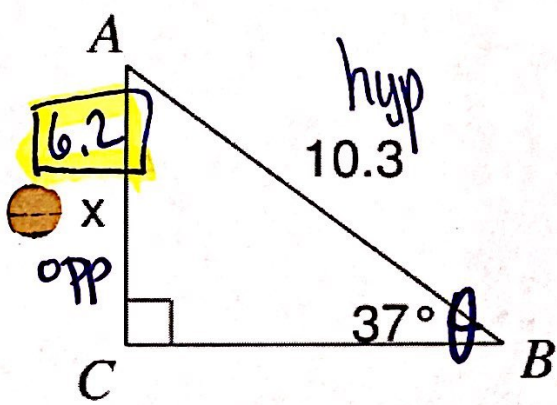
Ex. Find the length of the indicated side. Round your final answer to the nearest tenth.



$$\tan = \frac{o}{a}$$

$$\tan 47^\circ = \frac{9}{x}$$
~~$$\frac{1.072}{1} = \frac{9}{x}$$~~

$$x \approx 8.4$$



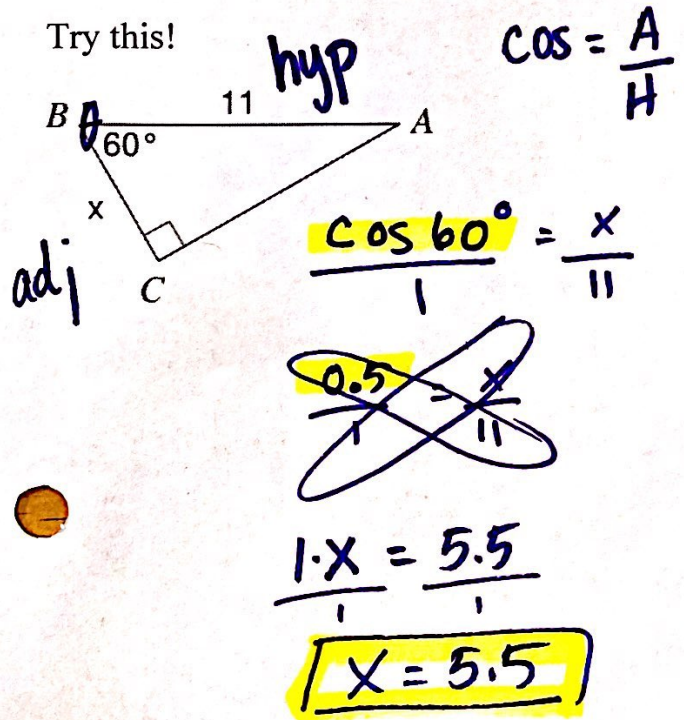
$$\sin = \frac{o}{H}$$

$$\sin 37^\circ = \frac{x}{10.3}$$
~~$$\frac{0.602}{1} = \frac{x}{10.3}$$~~

$$\frac{1 \cdot x}{x} = \frac{6.2006}{1}$$

$$x \approx 6.2$$

Try this!



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

$$\cos 60^\circ = \frac{x}{11}$$

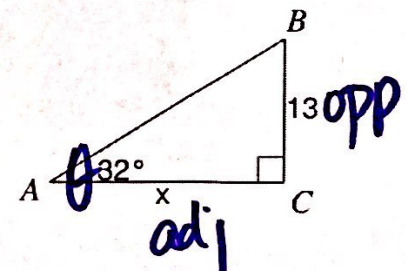
~~$$\frac{0.5}{1} = \frac{x}{11}$$~~

$$\frac{1 \cdot x}{1} = \frac{5.5}{1}$$

$$x = 5.5$$

And this!

$$\tan = \frac{o}{a}$$



$$\tan 32^\circ = \frac{13}{x}$$

~~$$\frac{0.625}{1} = \frac{13}{x}$$~~

$$\frac{0.625x}{0.625} = \frac{13}{0.625}$$

$$x \approx 20.8$$