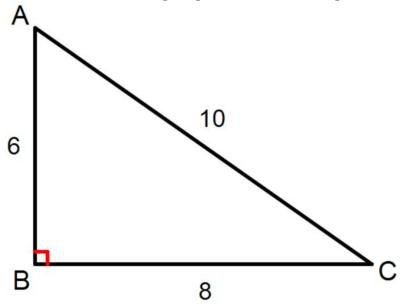
Fill in the following trig ratios according to the triangle.

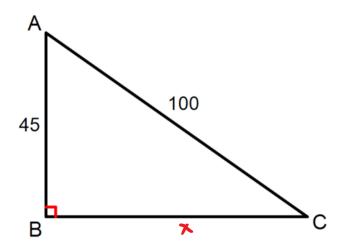


$$\sin(A) = \frac{4}{5}$$

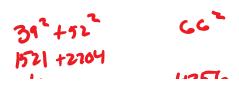
$$\cos(A) = \frac{5}{5}$$

$$\tan(A) = \frac{4}{3}$$

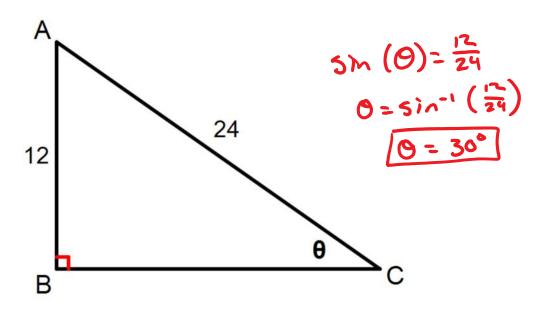
Find the value of the missing side length.



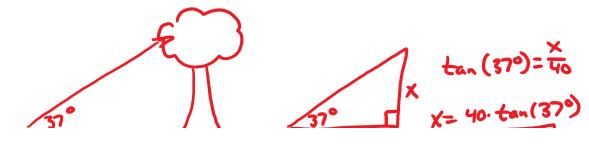
Is a triangle with the following side lengths a right triangle? 39, 52, 66



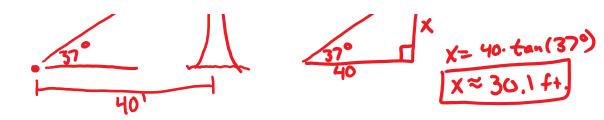
Find the angle measure.



If you want to measure the height of a tree and you stand 40 feet from the tree and measure the angle of inclination to be 37 degrees, how tall is the tree?



Topic 8 - Right Triangles and Trigonometry Page 2



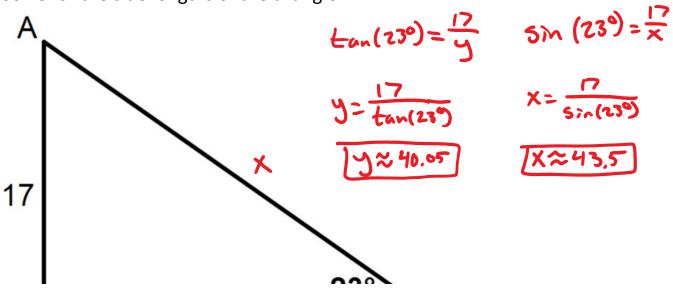
Find the angle measure.

$$\tan(R) = -\frac{\sqrt{2}}{2}$$

$$R = \tan^{-1}\left(-\frac{\sqrt{2}}{2}\right)$$

$$R \approx -35.264^{\circ}$$

Solve for the side lengths of the triangle.



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Solve for x and y in the following special triangles.

