Fill in the following trig ratios according to the triangle.

$$\sin(A) = \underline{\qquad}$$

$$\cos(A) = \underline{\qquad}$$

$$\tan(A) = \underline{\qquad}$$

A triangle with right angle at B, vertices A (top left), B (bottom left), C (bottom right). Side AB = 6, side BC = 8, side AC (hypotenuse) = 10.
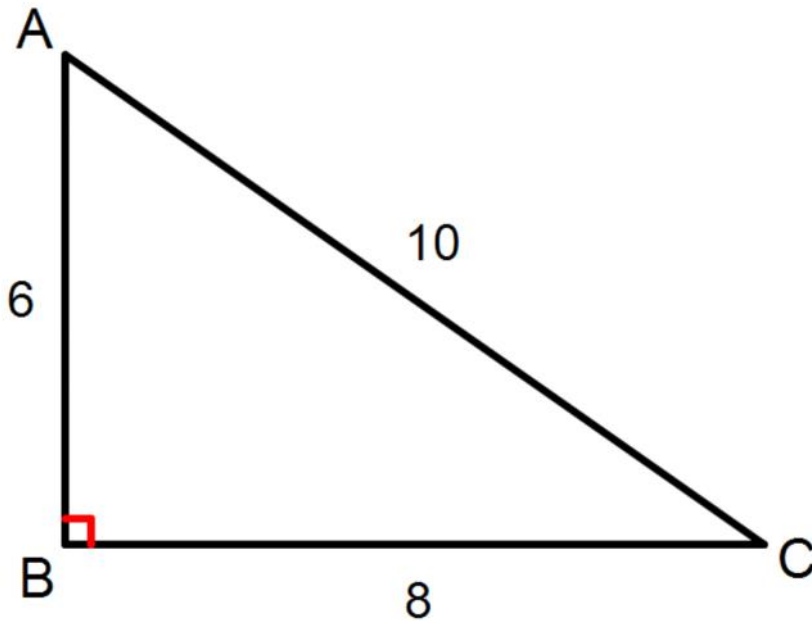
Find the value of the missing side length.

A triangle with right angle at B, vertices A (top left), B (bottom left), C (bottom right). Side AB = 45, hypotenuse AC = 100.
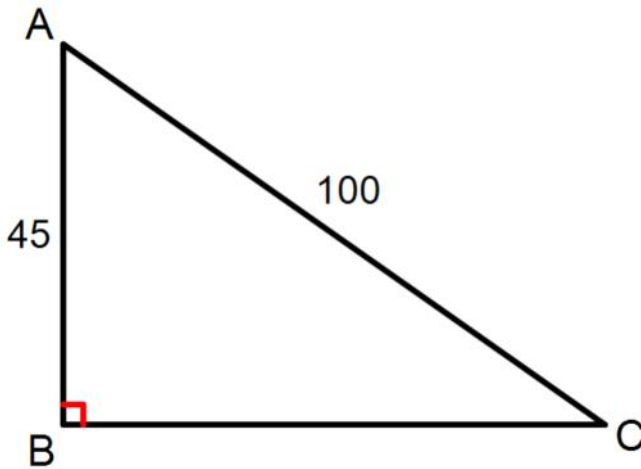
Is a triangle with the following side lengths a right triangle? 39, 52, 66
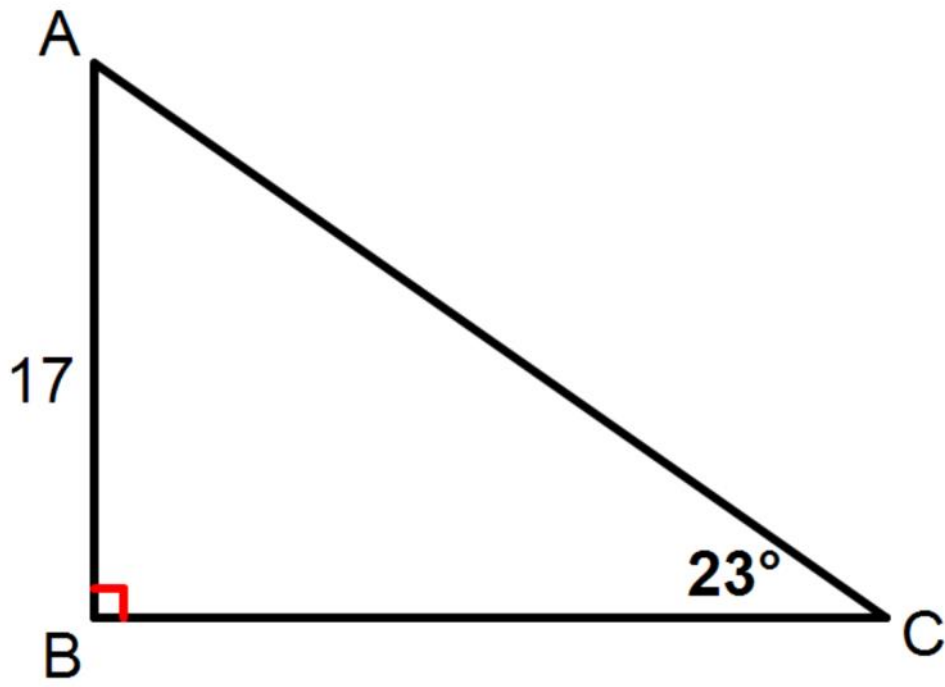
Find the angle measure.
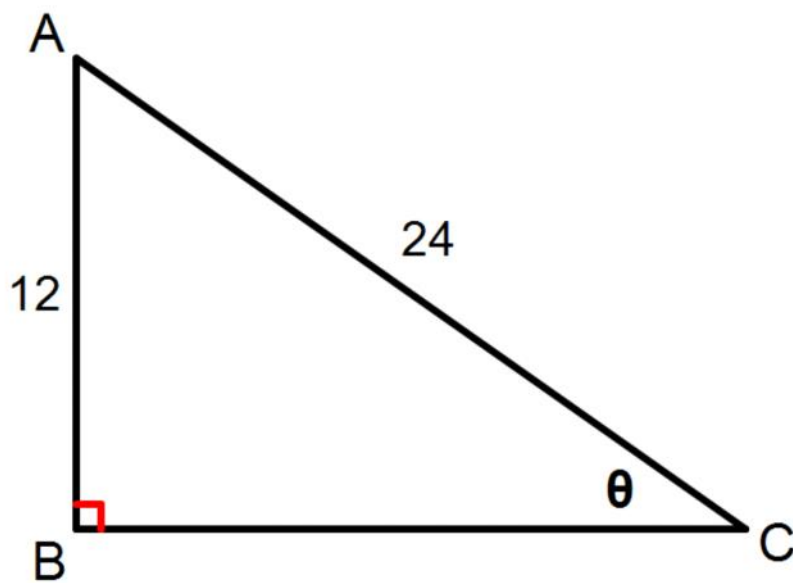
If you want to measure the height of a tree and you stand 40 feet from the tree and measure the angle of inclination to be 37 degrees, how tall is the tree?

Find the angle measure.

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

Solve for the side lengths of the triangle.

A

17

23°

B C

Solve for x and y in the following special triangles.

A

26

x

45°

B y C

D

x

y

30°

E 20 F