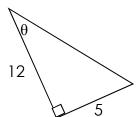
1. Find the exact values of the six trig functions for angle θ in the triangle below.



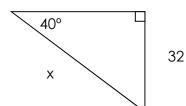
$$\sin \theta = \csc \theta =$$

$$\cos \theta = \sec \theta =$$

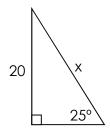
$$\tan \theta = \cot \theta =$$

Find the value of x without a calculator.

2.



3.



4. Sketch a triangle that has an acute angle θ . If $\sin \theta = \frac{4}{5}$, find the values of the other five trig functions for angle θ .

$$\sin \theta = \cos \theta =$$

$$\theta = \tan \theta =$$

$$csc \theta = sec \theta =$$

5. Sketch a triangle that has an acute angle θ . If $\sin \theta = \frac{5}{13}$, find the values of the other five trig functions for angle θ .

$$\sin \theta =$$

$$\cos \theta =$$

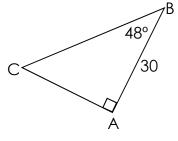
$$\tan \theta =$$

$$csc \theta =$$

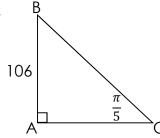
$$\sec \theta =$$

Use a calculator Solve the right triangle. (Make sure your calc is in the correct mode)

6.



7.



$$B =$$

8. A 20 ft ladder is leaning against a building so that the angle between the ground and the ladder is 72°. How high does the ladder reach on the building?

10. From the top of a 200-ft. lighthouse, the angle of depression to a ship in the ocean is 20°. How far is the ship from the base of the lighthouse?