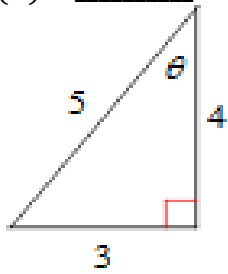


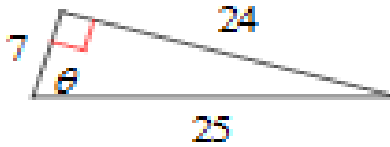
Unit 5 Mid-Unit Assessment REVIEW – Trig Functions

Find the value of the trig function indicated. Leave your answer as a ratio:

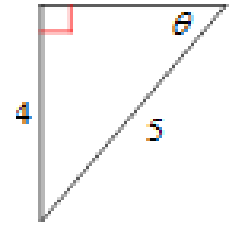
1. $\cos(\theta) =$ _____



2. $\sin(\theta) =$ _____

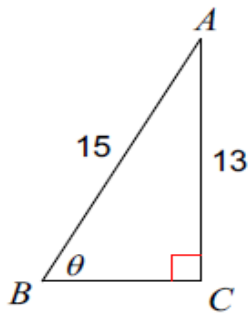


3. $\tan(\theta) =$ _____

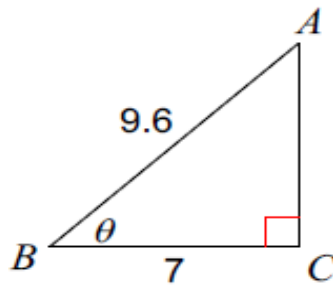


Find the measure of each angle indicated. Round your answer to the nearest degree.

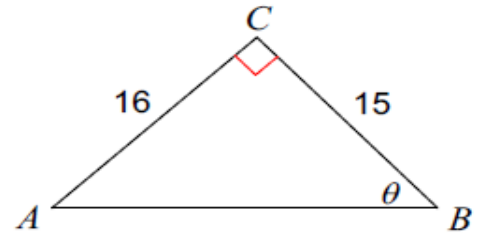
4. $\theta =$ _____



5. $\theta =$ _____

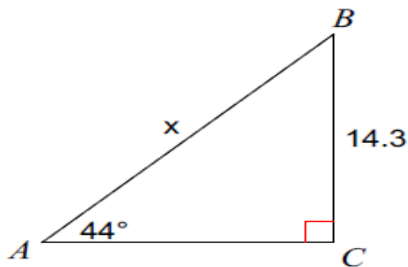


6. $\theta =$ _____

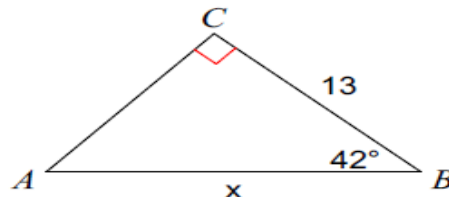


Find the measure of each side. Round your answer to the nearest tenth of a degree.

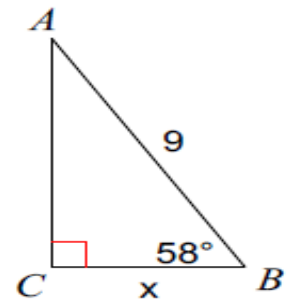
7. $x =$ _____



8. $x =$ _____



9. $x =$ _____



For each problem below, draw a picture. Then, use trig functions to solve. Show all work.

10. If a man is just about to ski down a steep mountain. He estimates the angle of depression from where he is now to the flag at the bottom of the course to be 24° . He knows that he is 800 feet higher than the base of the course. How long is the path that he will ski? (Round to the nearest foot)

11(a). A man at ground level measures the angle of elevation to the top of the building to be 67° . If at this point, he is 15 feet away from the building, what is the height of the building?

11(b). The same man now stands atop a building. He measures the angle of elevation to the building across the street to be 27° and the angle of depression (to the base of the building across the street) to be 31° . If the two buildings are 50 feet apart, how tall is the taller building?