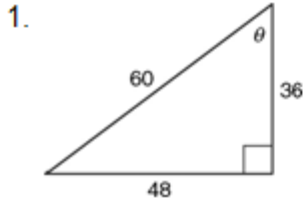
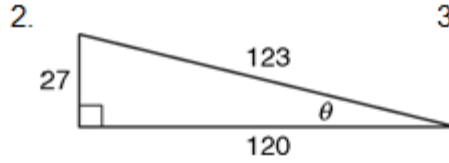
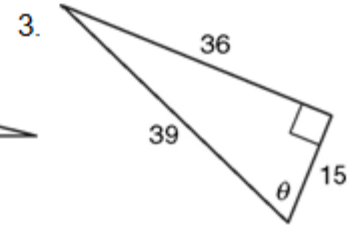


LESSON **13-1** **Practice B**
Right-Angle Trigonometry

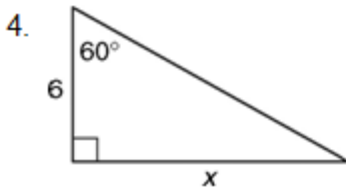
Find the value of the sine, cosine, and tangent functions for θ .

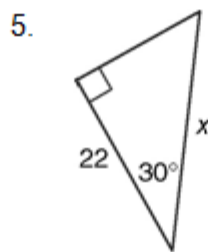


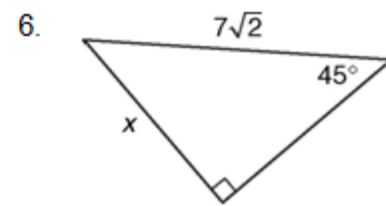




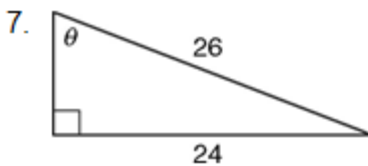
Use a trigonometric function to find the value of x .

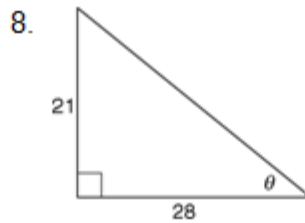


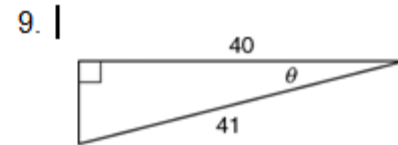




Find the values of the six trigonometric functions for θ .







Solve.

10. A water slide is 26 feet high. The angle between the slide and the water is 33.5° . What is the length of the slide?

11. A surveyor stands 150 feet from the base of a viaduct and measures the angle of elevation to be 46.2° . His eye level is 6 feet above the ground. What is the height of the viaduct to the nearest foot?

12. The pilot of a helicopter measures the angle of depression to a landing spot to be 18.8° . If the pilot's altitude is 1640 meters, what is the horizontal distance to the landing spot to the nearest meter?
