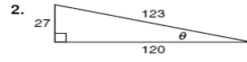
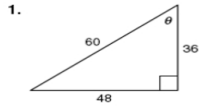


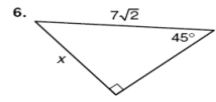
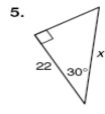
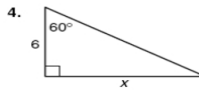
Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**LESSON 18-1** **Practice B**  
**Right-Angle Trigonometry**

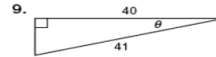
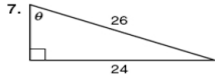
Find the value of the sine, cosine, and tangent functions for  $\theta$ .



Use a trigonometric function to find the value of  $x$ .



Find the values of the six trigonometric functions for  $\theta$ .



Solve.

10. A water slide is 26 feet high. The angle between the slide and the water is  $33.5^\circ$ . 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  $46.2^\circ$ . 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  $18.8^\circ$ . If the pilot's altitude is 1640 meters, what is the horizontal distance to the landing spot to the nearest meter?