## Chapter 9 Skills Review - March 23-27

Find the value of $\boldsymbol{x}$. Then tell whether the side lengths form a Pythagorean triple.
1.

2.

3.

4.

5.

6.


Find the value of $\boldsymbol{x}$. Write your answer in simplest form.
7.

8.


Use the figure. Write your answer as a fraction and as a decimal rounded to the nearest hundredth.
9. $\sin A$
10. $\cos A$

11. $\sin B$
12. $\cos B$

## Use the triangle for \#13-16.

Find $\tan A$ and $\tan B$. Write each answer as a fraction and as a decimal rounded to the nearest tenth.
13. $\tan A$
14. $\tan B$

Find the measure of each angle to
 the nearest degree.
15. $m \angle A$
16. $m \angle B$

## Solve the Triangle. Find the values of the missing angles and of $\boldsymbol{x}$ and $\boldsymbol{y}$.

Round your answer to the nearest tenth.
17.

18. You look up at a $55^{\circ}$ angle to see the top of a building. The vertical distance from the ground to your eye is 5.5 feet and the distance from you to the building is 57 feet. Estimate the height of the building.
19. A bird sits on top of a lamppost. The angle made by the lamppost and a line from the feet of the bird to the feet of an observer standing away from the lamppost is $55^{\circ}$. The distance from the lamppost to the observer is 25 feet. Estimate the height of the lamppost?

