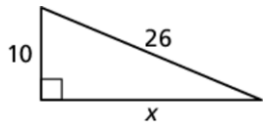
Chapter 9 Skills Review – March 23 - 27

Find the value of *x*. Then tell whether the side lengths form a Pythagorean triple.

1.



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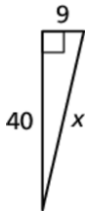

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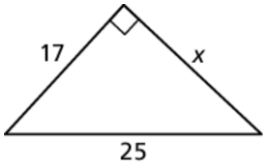

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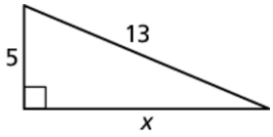

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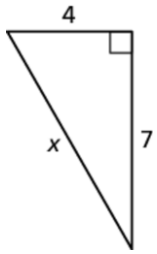
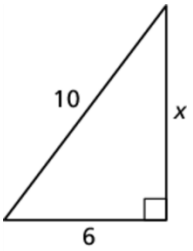
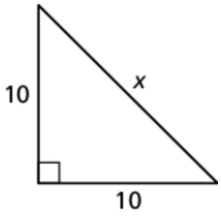


6.

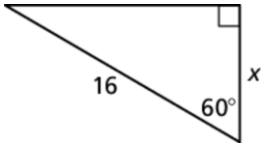


Find the value of *x*. Write your answer in simplest form.

7.



8.



Use the figure. Write your answer as a fraction and as a decimal rounded to the nearest hundredth.

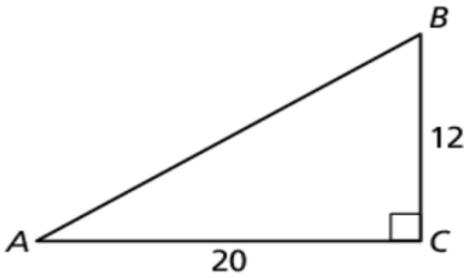
9. $\sin A$ **10.** $\cos A$

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



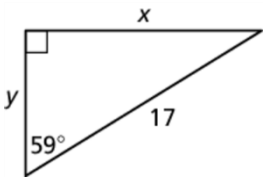
Find the measure of each angle to the nearest degree.

15. $m\angle A$ **16.** $m\angle B$

Solve the Triangle. Find the values of the missing angles and of *x* and *y*.

Round your answer to the nearest tenth.

17.



18. You look up at a $55°$ 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 $55°$. The distance from the lamppost to the observer is 25 feet. Estimate the height of the lamppost?