LESSON 9.6

NAME _____ DATE _____

Practice A

For use with pages 567–572

Match the trigonometric expression with the correct ratio. Some ratios may be used more than once, and some may not be used at all.

1. $\sin A =$

2. $\cos A =$

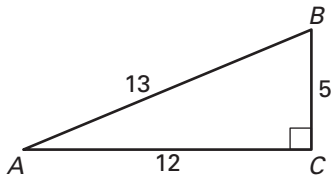
3. $\tan A =$

4. $\sin B =$

5. $\cos B =$

6. $\tan B =$

A. $\frac{5}{13}$ **B.** $\frac{12}{13}$ **C.** $\frac{5}{12}$ **D.** $\frac{12}{5}$ **E.** $\frac{13}{12}$ **F.** $\frac{13}{5}$

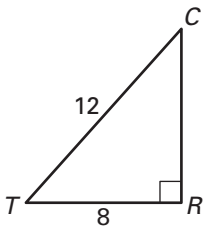


Use the diagram to find the indicated measurement. Round your answer to the nearest tenth.

7. CR

8. $m\angle T$

9. $m\angle C$



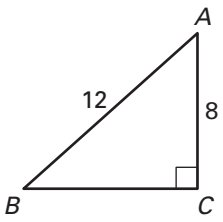
In Exercises 10–17, $\angle A$ is an acute angle. Use a calculator to approximate the measure of $\angle A$. Round to one decimal place.

10. $\sin A = 0.42$ **11.** $\tan A = 2.50$ **12.** $\cos A = 0.98$ **13.** $\sin A = 0.02$

14. $\cos A = 0.68$ **15.** $\tan A = 0.65$ **16.** $\sin A = 0.49$ **17.** $\tan A = 1.50$

Solve the right triangle. Round decimals to the nearest tenth.

18.



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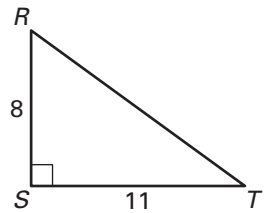

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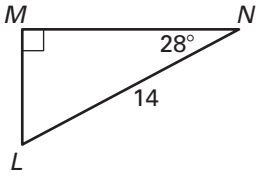

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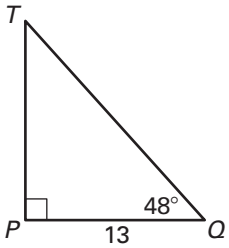

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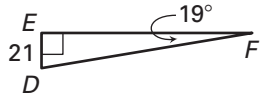

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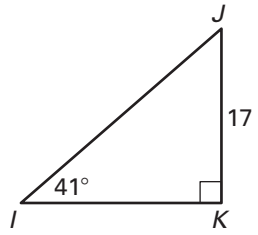

24. ***Ladder*** You lean a 16 foot ladder against the wall. If the base is 4 feet from the wall, what angle does the ladder make with the ground?