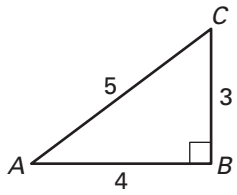
LESSON 10.6

NAME _____ DATE _____

Practice A

For use with pages 569–575

Complete the statement for the figure at the right.



1. If $\tan A = \frac{3}{4}$, then $\tan^{-1}\frac{3}{4} = m\angle$ ___?___.
2. If $\sin A = \frac{3}{5}$, then $\sin^{-1}$ ___?___ $= m\angle A$.
3. If $\cos A = \frac{4}{5}$, then ___?___ $\frac{4}{5} = m\angle A$.

$\angle A$ is an acute angle. Use a calculator to approximate the measure of $\angle A$ to the nearest tenth of a degree.

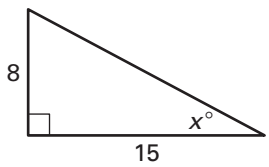
4. $\tan A = 3$
5. $\tan A = 2.5$
6. $\tan A = 1.0$

$\angle B$ is an acute angle. Use a calculator to approximate the measure of $\angle B$ to the nearest tenth of a degree.

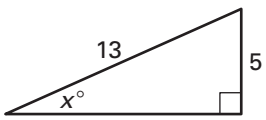
7. $\sin B = 0.65$
8. $\sin B = 0.30$
9. $\sin B = 0.8$
10. $\cos B = 0.28$
11. $\cos B = 0.85$
12. $\cos B = 0.55$

Find the value of *x*. Round your answer to the nearest tenth.

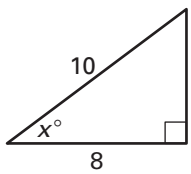
13.



14.

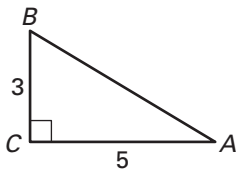


15.

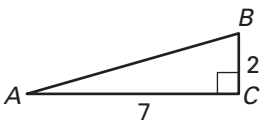


Use the Pythagorean Theorem to find the length of the hypotenuse. Then use the inverse tangent to find the measure of $\angle A$ to the nearest tenth of a degree.

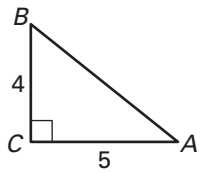
16.



17.



18.



19. The length of a loading ramp is 15 feet and its height is 3 feet. Use inverse sine to find the value of x to the nearest tenth.