

Practice B

For use with pages 569–575

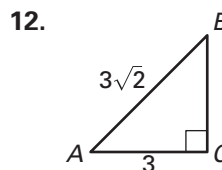
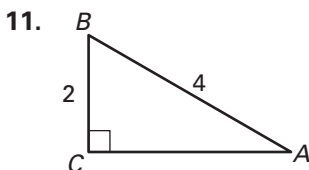
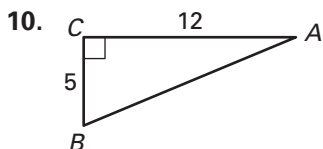
For any acute angle A of a right triangle, complete the statement.

- If $\tan A = z$, then $\tan^{-1} z = \underline{\quad? \quad}$.
- If $\sin A = y$, then $\underline{\quad? \quad} = m\angle A$.
- If $\cos A = \underline{\quad? \quad}$, then $\cos^{-1} x = m\angle A$.

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

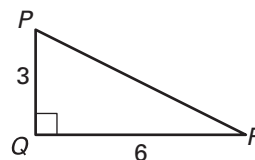
- | | | |
|-------------------|--------------------|--------------------|
| 4. $\tan A = 3.4$ | 5. $\sin A = 0.74$ | 6. $\cos A = 0.66$ |
| 7. $\sin A = 0.4$ | 8. $\cos A = 0.52$ | 9. $\tan A = 1.4$ |

Find the measure of $\angle A$ to the nearest tenth of a degree.

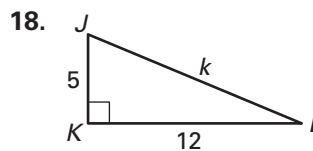
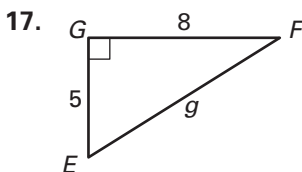
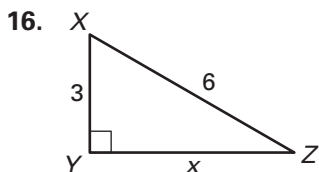


Solve $\triangle PQR$ by finding each measure. Round decimals to the nearest tenth.

13. PR 14. $m\angle P$ 15. $m\angle R$



Solve the right triangle. Round your answers to the nearest tenth.



A 20-foot ladder leans against a house as shown. Round your answers to the nearest tenth, if necessary.

- Safety warnings for the ladder say not to use the ladder at an angle of greater than 75° with the ground. Is the ladder angle shown safe? What is the angle?
- At what height does the top of the ladder touch the house?

