

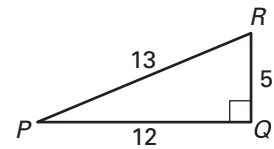
LESSON
10.5

NAME _____ DATE _____

Practice B

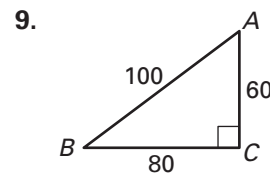
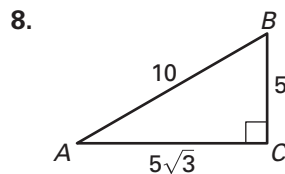
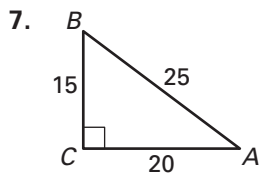
For use with pages 563–568

Use the right triangle PQR with acute angles P and R , as shown at the right. Find the trigonometric ratio.



1. $\sin P$
2. $\sin R$
3. $\cos P$
4. $\cos R$
5. $\tan P$
6. $\tan R$

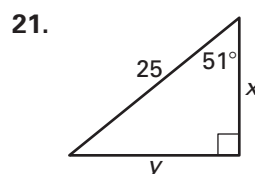
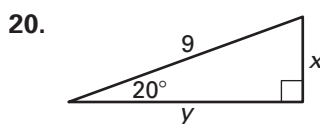
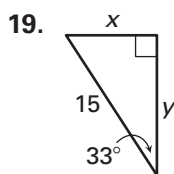
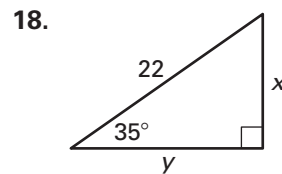
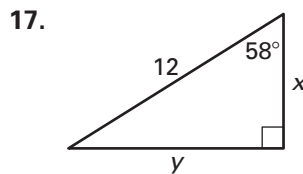
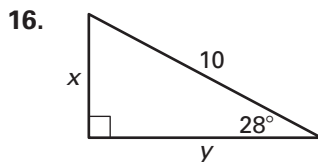
Find $\sin A$ and $\cos A$. Write your answers as fractions in simplest form.



Use a calculator to approximate the value to four decimal places.

10. $\cos 53^\circ$
11. $\sin 61^\circ$
12. $\sin 13^\circ$
13. $\cos 85^\circ$
14. $\cos 27^\circ$
15. $\sin 72^\circ$

Find the lengths of the legs of the triangle. Round your answers to the nearest tenth.



A ramp for performing jumps on water skis is shown at the right.

22. Use a trigonometric ratio to write an equation to find x , the height of the 16-foot ramp.
23. Solve the equation to estimate x to the nearest tenth of a foot.

