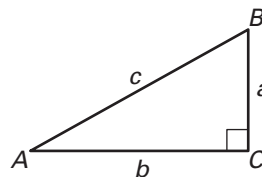


Practice A

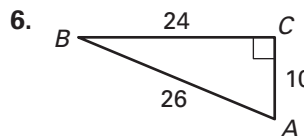
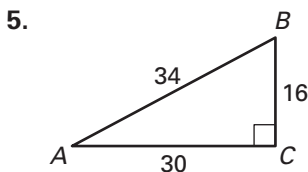
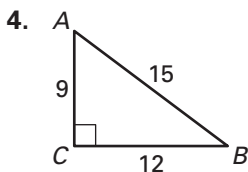
For use with pages 563–568

Use the diagram shown at the right to match the trigonometric ratios.

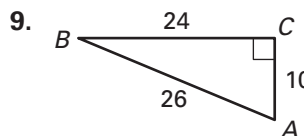
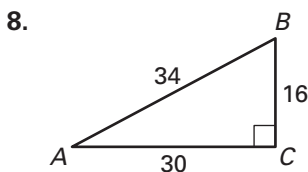
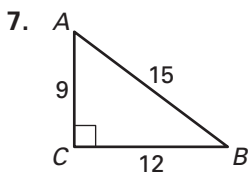


- | | |
|-------------|------------------|
| 1. $\cos A$ | A. $\frac{a}{b}$ |
| 2. $\sin A$ | B. $\frac{b}{c}$ |
| 3. $\tan A$ | C. $\frac{a}{c}$ |

Find $\sin A$. Write your answer as a fraction in simplest form.



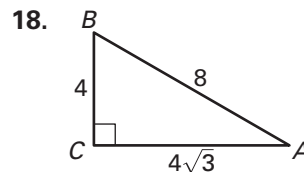
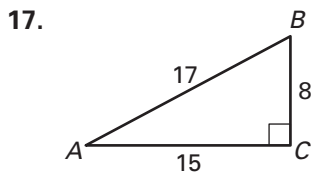
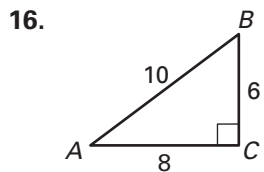
Find $\cos A$. Write your answer as a fraction in simplest form.



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

- | | | |
|---------------------|---------------------|---------------------|
| 10. $\sin 48^\circ$ | 11. $\cos 80^\circ$ | 12. $\cos 10^\circ$ |
| 13. $\sin 22^\circ$ | 14. $\cos 55^\circ$ | 15. $\sin 80^\circ$ |

Find $\sin A$ and $\cos A$. Write your answers as decimals rounded to four decimal places, if necessary.



A 16-foot ladder leans against a building, as shown. The ladder makes an angle of 66° with the ground.

19. Use a sine ratio to write an equation to find x .
20. Solve the equation to estimate x to the nearest foot.

