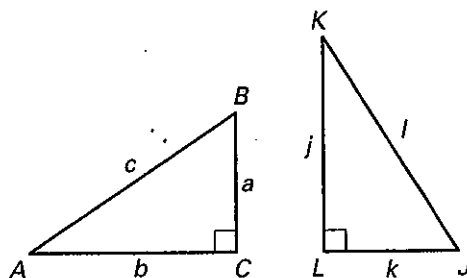


Practice A

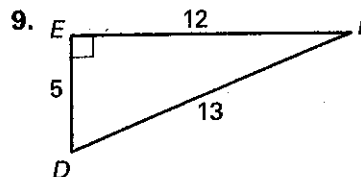
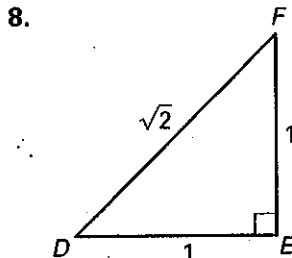
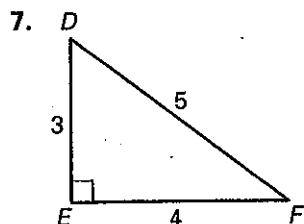
For use with pages 558–566

Use the diagrams at the right to find the trigonometric ratio.

1. $\sin A$
2. $\cos A$
3. $\tan B$
4. $\sin J$
5. $\cos K$
6. $\tan K$



Find the sine, the cosine, and the tangent of the acute angles of the triangle. Express each value as a decimal rounded to four places.

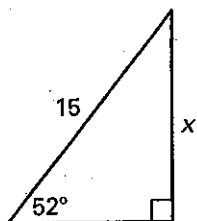


Use a calculator to approximate the given value to four decimal places.

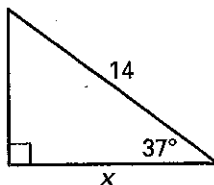
- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| 10. $\sin 30^\circ$ | 11. $\cos 18^\circ$ | 12. $\tan 72^\circ$ | 13. $\sin 48^\circ$ |
| 14. $\tan 42^\circ$ | 15. $\cos 65^\circ$ | 16. $\tan 14^\circ$ | 17. $\sin 83^\circ$ |

Fill in the blank. Solve for the variable. Round decimals to the nearest tenth.

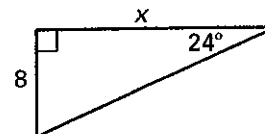
18. $\sin 52^\circ = \frac{x}{?}$



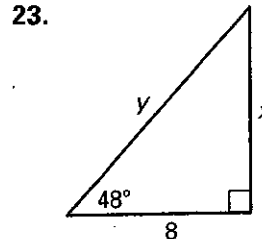
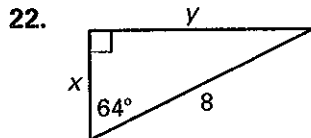
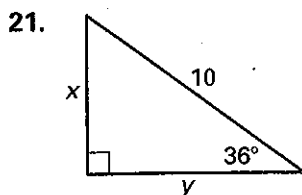
19. $\cos ?^\circ = \frac{x}{14}$



20. $\tan 24^\circ = \frac{8}{?}$



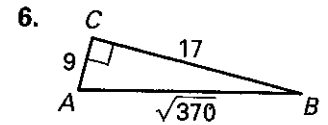
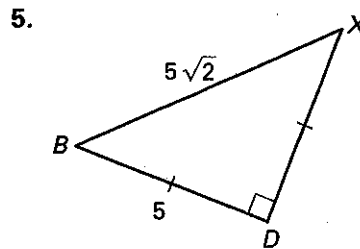
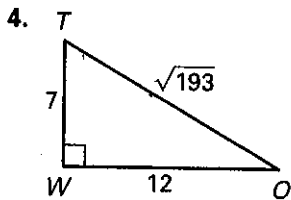
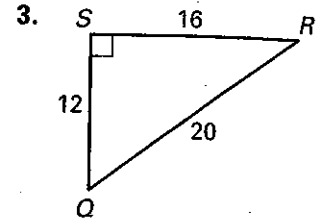
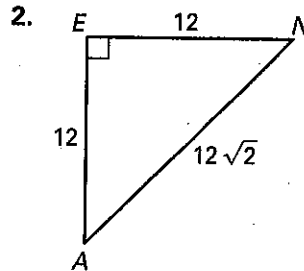
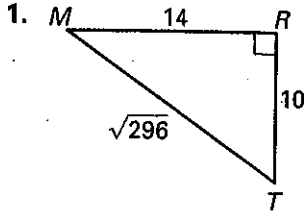
Find the value of each variable. Round decimals to the nearest tenth.



Practice B

For use with pages 558-566

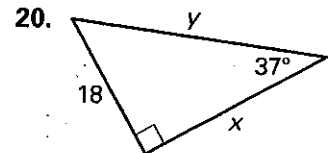
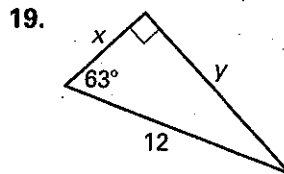
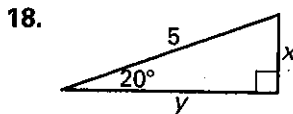
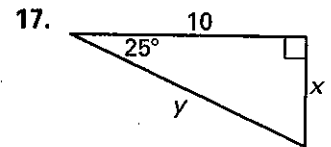
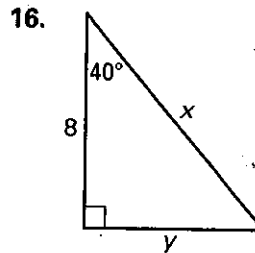
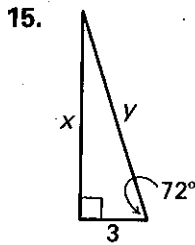
Find the sine, the cosine, and the tangent of the acute angles of the triangle. Express each answer as a decimal rounded to four places.



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

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| 7. $\sin 10^\circ$ | 8. $\cos 38^\circ$ | 9. $\tan 44^\circ$ | 10. $\sin 74^\circ$ |
| 11. $\tan 65^\circ$ | 12. $\cos 63^\circ$ | 13. $\sin 57^\circ$ | 14. $\cos 33^\circ$ |

Find the value of each variable. Round decimals to the nearest tenth.



21. **Train** A train is traveling up a slight grade with an angle of inclination of only 2° . After traveling 1 mile what is the vertical change in feet?

