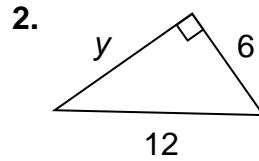
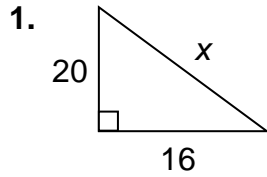
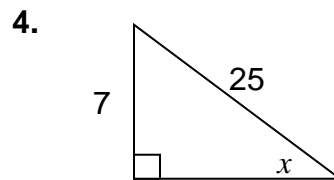
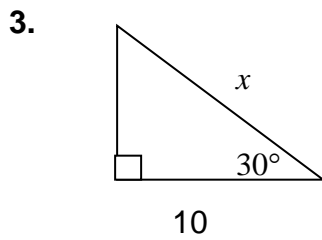


The Right Triangle Review

Find the missing side of each right triangle. Leave your answer in simplest radical form.



Find the value of  $x$ . Round answers to the nearest tenth.

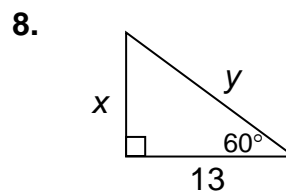
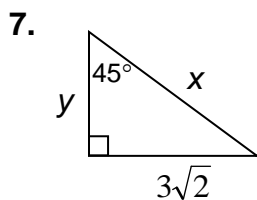


Draw a picture, write an equation, and solve the problem. Round answers to the nearest tenth.

5. A tree casts a 50-m shadow. If the sun's rays form a  $47^\circ$  angle with the ground, how tall is the tree?

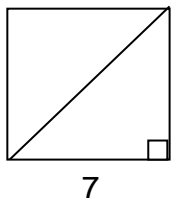
6. Grover is flying a kite with a 17-ft string. If the string makes a  $55^\circ$  angle with the ground, how high above the ground is the kite?

Find the value of  $x$  and  $y$ . Leave your answers in radical form.

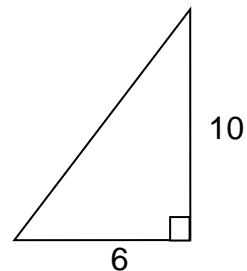


9. Find the diagonal of the square with a side of 7. (Leave your answer in simplest radical form.)

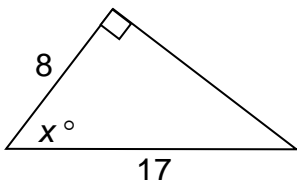
- A.  $7\sqrt{2}$
- B.  $7\sqrt{3}$
- C. 14
- D.  $14\sqrt{2}$
- E.  $49\sqrt{2}$



10. Find the length of the missing side. (Leave your answer in simplest radical form.)

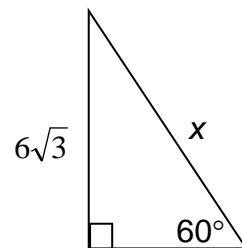


11. Find the value of  $x$  to the nearest degree.

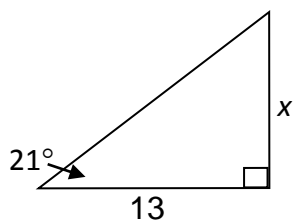


12. Find the value of  $x$ . (Leave your answer in simplest radical form.)

- A. 6
- B. 16
- C. 12
- D. 18
- E.  $12\sqrt{3}$



13. Find the value of  $x$  to the nearest tenth.



14. Find the area of an equilateral triangle whose perimeter is 24. (Leave your answer in simplest radical form.)

15. Solve for  $x$ .

