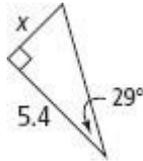


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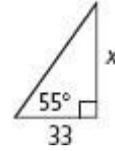
## Trigonometry

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

1.



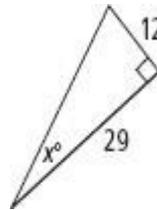
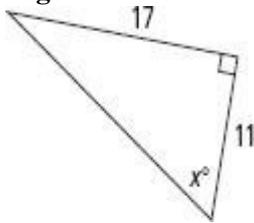
2.



3,4.

Find the value of  $x$ .

Round to the nearest degree.

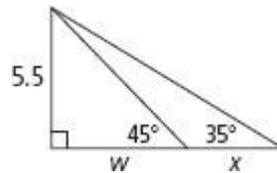


5. An escalator at a shopping center is 200 ft 9 in. long, and rises at an angle of  $15^\circ$ . What is the vertical rise of the escalator? Round to the nearest inch.

6.

The lengths of the diagonals of a rhombus are 5 in. and 8 in. Find the measures of the angles of the rhombus to the nearest degree.

7. Find the values of  $w$  and then  $x$ . Round lengths to the nearest tenth and angle measures to the nearest degree.



8. A right triangle has a hypotenuse of length 10 and one leg of length 7. Find the length of the other leg and the measures of the acute angles in the triangle. Round your answers to the nearest tenth.
9. A right triangle has an angle that measures  $28^\circ$ . The leg opposite the  $28^\circ$  angle measures 13. Find the length of the other leg and the hypotenuse. Round your answers to the nearest tenth.