

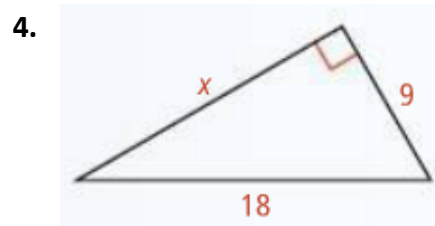
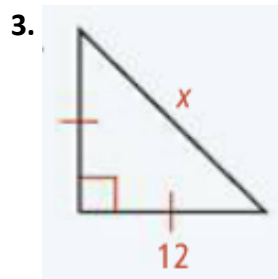
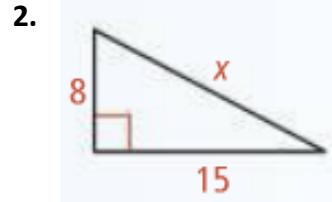
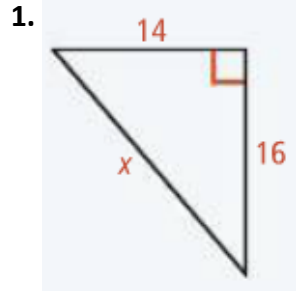
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Unit 7: Right Triangles and Trigonometry Study Guide

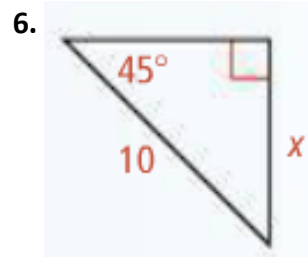
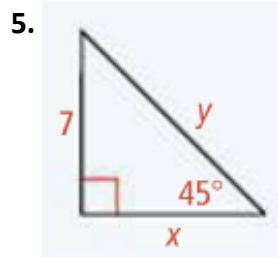
LT#1: Use the Pythagorean Theorem and its converse.

Find the value of x . If your answer is not an integer, express it in simplest radical form.

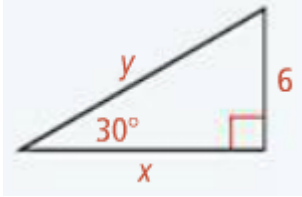


LT#2: Use the properties of 45-45-90 and 30-60-90 triangles.

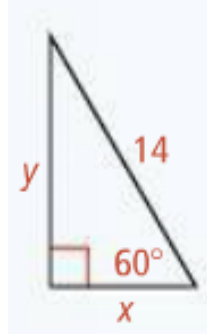
Find the value of each variable. If your answer is not an integer, express it in simplest radical form.



7.



8.



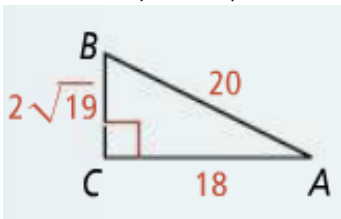
9. A square garden has sides 50 ft long. You stretch a hose from one corner of the garden to another corner along the garden's diagonal. To the nearest tenth, how long is the hose?

LT#3: Use the sine, cosine, and tangent ratios to determine side lengths and angle measures in right triangles.

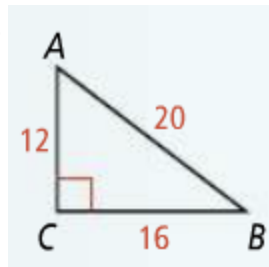
LT#4: Use angles of elevation and depression to solve problems.

Express $\sin A$, $\cos A$, and $\tan A$ as ratios.

10.

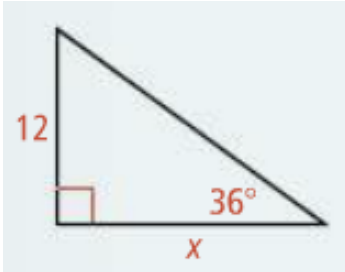


11.

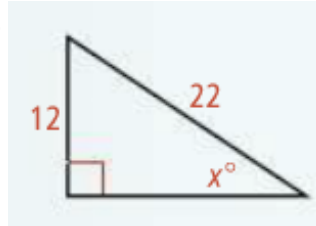


Find the value of x to the nearest tenth.

12.



13.



14. While flying a kite, Lola lets out 45 ft of string and anchors it to the ground. She determines that the angle of elevation of the kite is 58° . What is the height of the kite from the ground? Round to the nearest tenth.