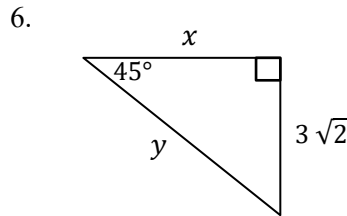
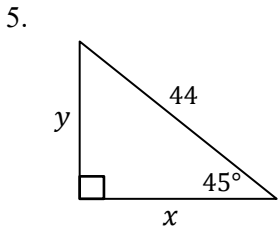
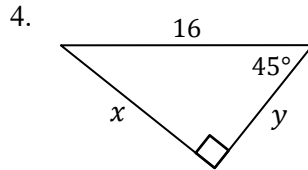
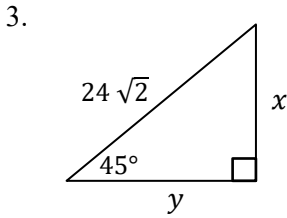
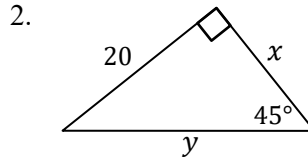
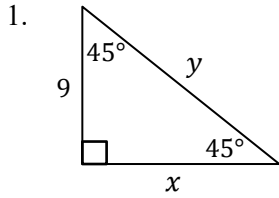


Math 2 Unit 7 Worksheet 2
Special Right Triangles

Name: _____
Date: _____ Per: _____

[1-6] Find the value of each variable. If your answer is not an integer, express it in simplest radical form.
Triangles not to scale.



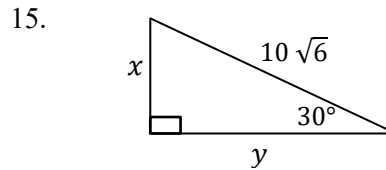
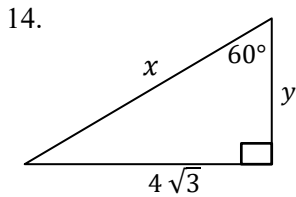
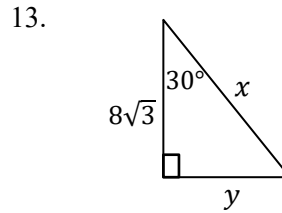
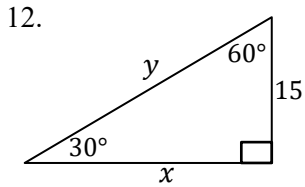
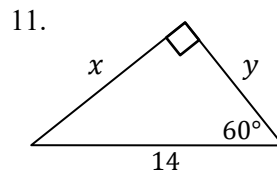
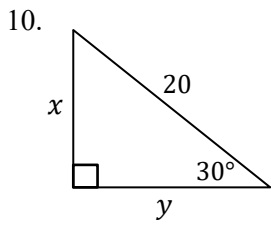
[7-9] Sketch the figure for each problem and solve for the missing distance.

7. An architect is planning a new town square. The square has sides that are 20 ft long. A walkway will also cut diagonally through the square. How long will the walkway be? **Round to the nearest tenth of a foot.**

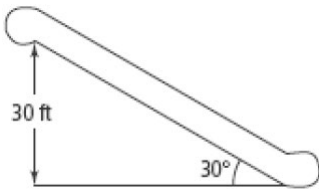
8. A square has a side length of $11\sqrt{2}$ meters. What is the length of the diagonal of the square?

9. A square has a diagonal of 15 cm. What is the length of a side? **Express in simplest radical form.**

[10-15] Find the value of each variable. If your answer is not an integer, express it in simplest radical form.



16. The top of a giant slide is 30 ft off the ground. The slide rises at a 30° angle. **To the nearest whole foot, what is the distance down the slide?**



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

