Find the value of the variable. Write your answer in simplest form
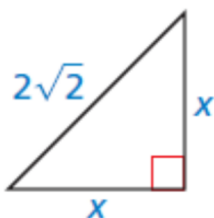
1.

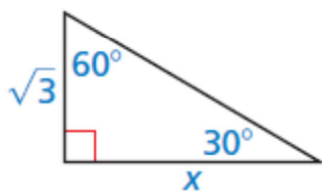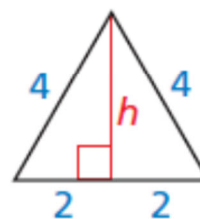$2\sqrt{2}$ x x

2.

$\sqrt{2}$ $\sqrt{2}$ y

3.

$\sqrt{3}$ $60°$ $30°$ x

4.

4 h 4 2 2
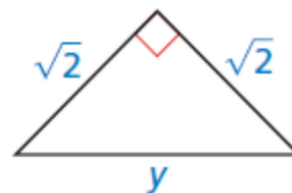
5. The logo on a recycling bin resembles an equilateral triangle with side lengths of 6 centimeters. Approximate the area of the logo.

6. The body of a dump truck is raised to empty a load of sand. How high is the 14-foot-long body from the frame when it is tipped upward by a 60° angle?

14 ft

60°