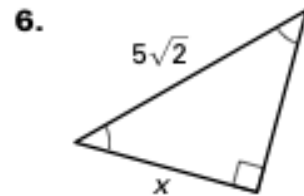
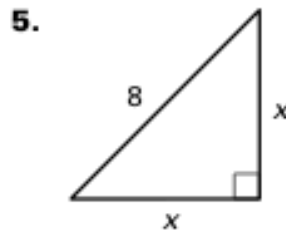
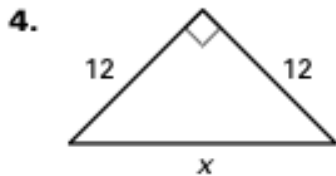
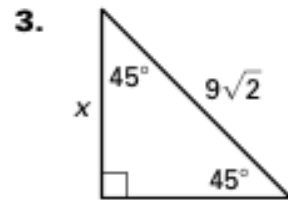
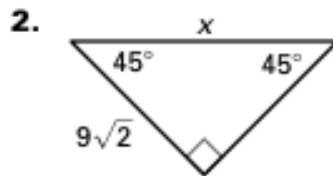
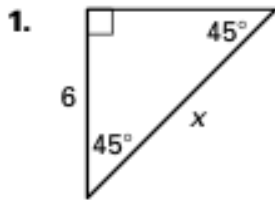


Geometry

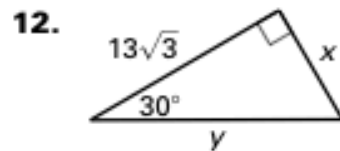
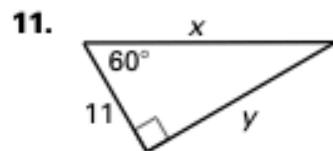
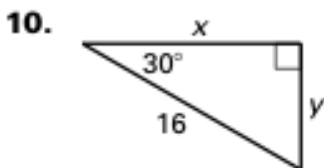
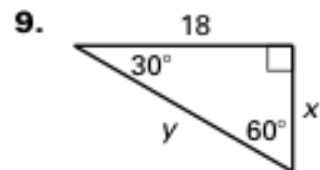
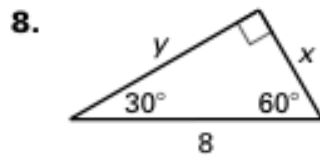
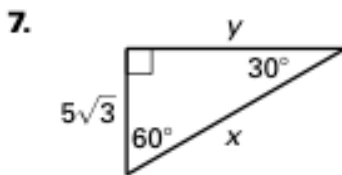
Worksheet 7A II

Name _____

Find the value of x . Write your answer in simplest radical form.

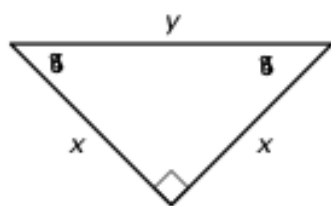


Find the value of each variable. Write your answers in simplest radical form.



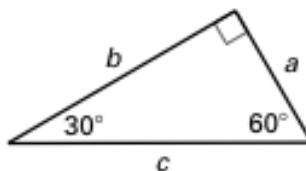
Complete the table.

13.



x	5		$\sqrt{2}$	9	
y		$4\sqrt{2}$			24

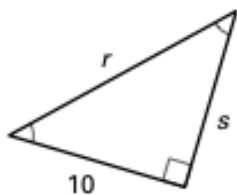
14.



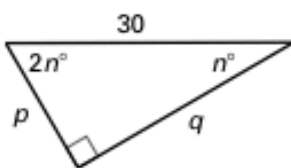
a	9			11	
b		9	$5\sqrt{3}$		
c					16

Find the value of each variable. Write your answers in simplest radical form.

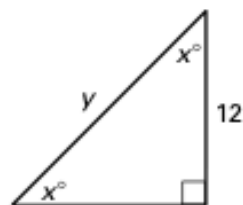
15.



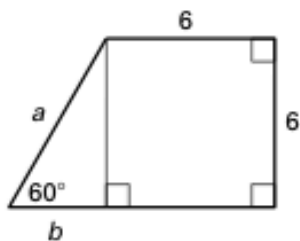
16.



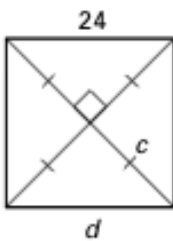
17.



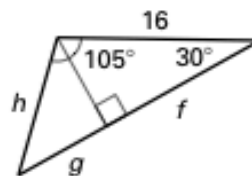
18.



19.



20.



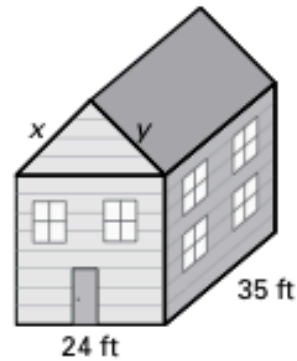
The side lengths of a triangle are given. Determine whether it is a 45° - 45° - 90° triangle, a 30° - 60° - 90° triangle, or neither.

21. 5, 10, $5\sqrt{3}$

22. 7, 7, $7\sqrt{3}$

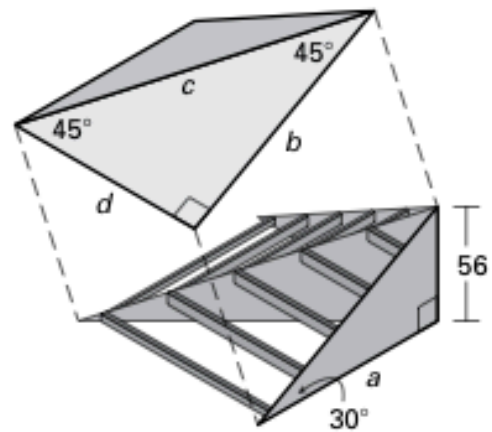
23. 6, 6, $6\sqrt{2}$

- 24. Roofing** You are replacing the roof on the house shown, and you want to know the total area of the roof. The roof has a 1-1 pitch on both sides, which means that it slopes upward at a rate of 1 vertical unit for each 1 horizontal unit.



- Find the values of x and y in the diagram.
- Find the total area of the roof to the nearest square foot.

- 25. Skateboard Ramp** You are using wood to build a pyramid-shaped skateboard ramp. You want each ramp surface to incline at an angle of 30° and the maximum height to be 56 centimeters as shown.



- Use the relationships shown in the diagram to determine the lengths a , b , c , and d to the nearest centimeter.
- Suppose you want to build a second pyramid ramp with a 45° angle of incline and a maximum height of 56 inches. You can use the diagram shown by simply changing the 30° angle to 45° . Determine the lengths a , b , c , and d to the nearest centimeter for this ramp.