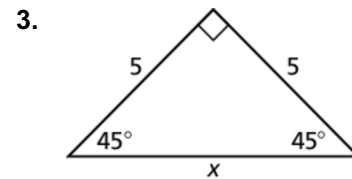
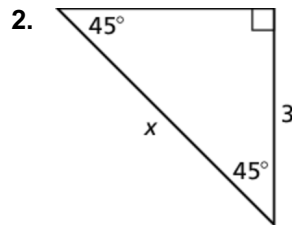
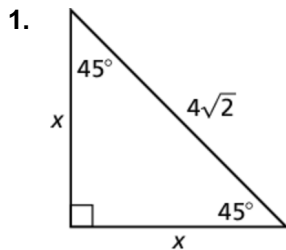


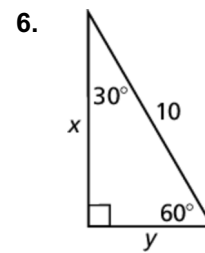
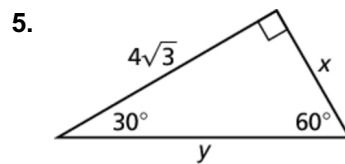
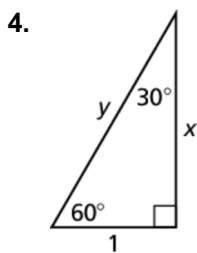
Name \_\_\_\_\_ Date \_\_\_\_\_

## 9.2 Practice A

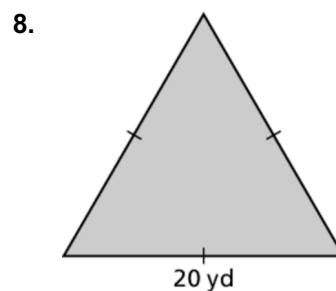
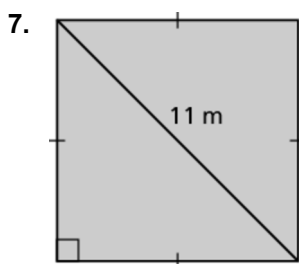
In Exercises 1–3, find the value of  $x$ . Write your answer in simplest form.



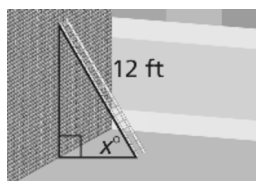
In Exercises 4–6, find the values of  $x$  and  $y$ . Write your answers in simplest form.



In Exercises 7 and 8, find the area of the figure.



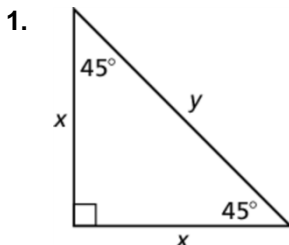
9. A 12-foot ladder is leaning up against a wall, as shown. How high does the ladder reach up the wall when  $x$  is  $30^\circ$ ?  $45^\circ$ ?  $60^\circ$ ?



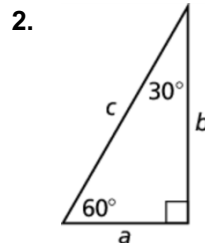
Name \_\_\_\_\_ Date \_\_\_\_\_

## 9.2 Practice B

In Exercises 1 and 2, copy and complete the table. Write your answers in simplest form.



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



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

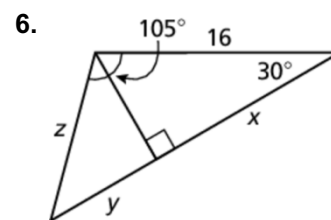
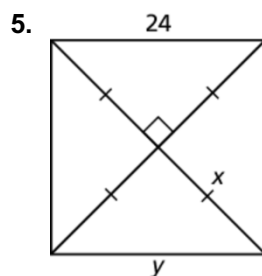
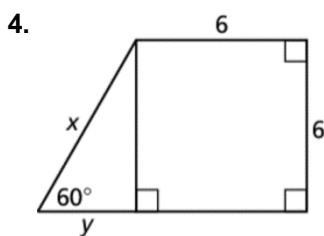
3. The side lengths of a triangle are given. Determine whether each triangle is a  $45^\circ$ - $45^\circ$ - $90^\circ$  triangle, a  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle, or neither.

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

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

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

In Exercises 4–6, find the values of the variables. Write your answers in simplest form.



7. You build a two-person tent, as shown. How many square feet of material is needed to make the tent, assuming the tent has a floor?

