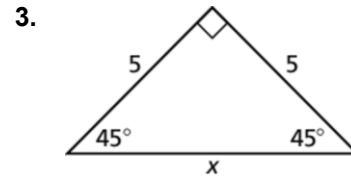
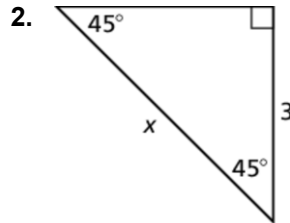
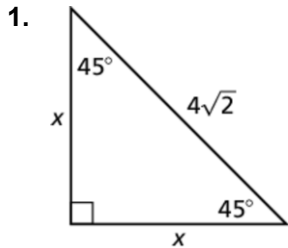


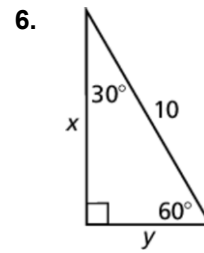
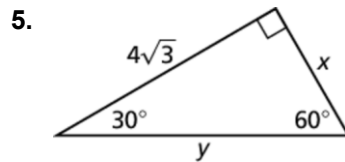
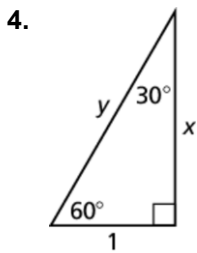
9.2

Practice A

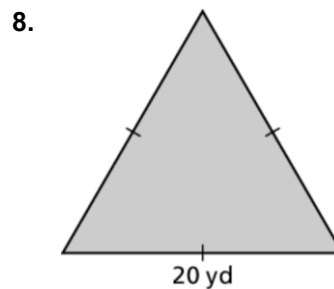
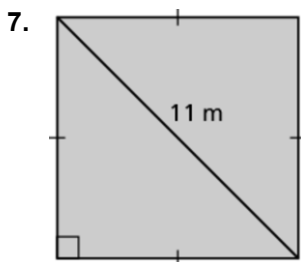
In Exercises 1–3, find the value of x . Write your answer in simplest form.



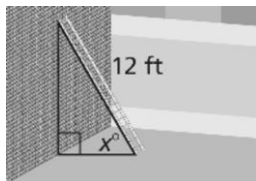
In Exercises 4–6, find the values of x and y . Write your answers in simplest form.



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



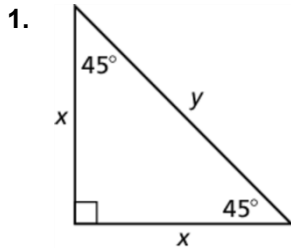
9. A 12-foot ladder is leaning up against a wall, as shown. How high does the ladder reach up the wall when x is 30° ? 45° ? 60° ?



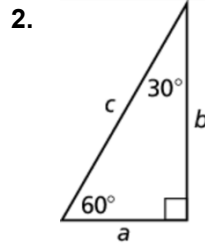
9.2

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	

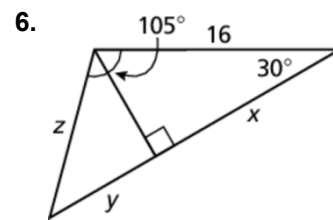
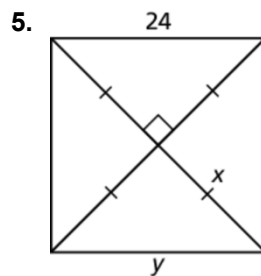
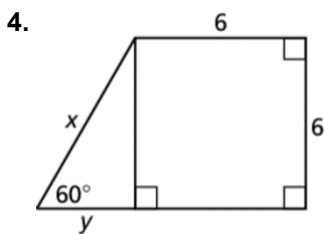
3. The side lengths of a triangle are given. Determine whether each triangle is a $45^\circ\text{-}45^\circ\text{-}90^\circ$ triangle, a $30^\circ\text{-}60^\circ\text{-}90^\circ$ triangle, or neither.

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?

