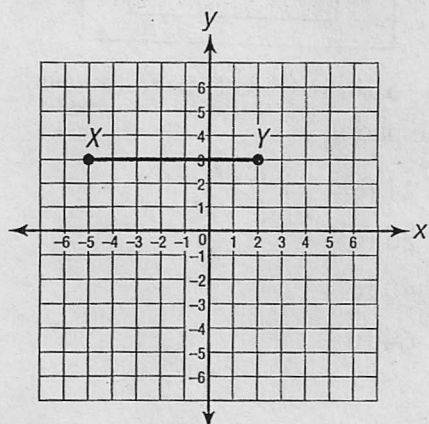


# Lesson Practice

Choose the correct answer.

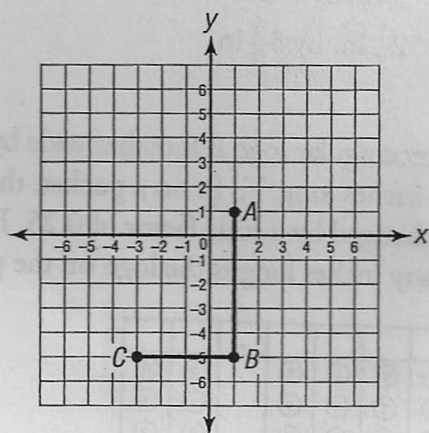
1. Figure  $XYZ$  is a right triangle.



Which point could represent point  $Z$ , the coordinate for the missing vertex?

- A.  $(3, 5)$                       C.  $(3, -2)$   
B.  $(5, 3)$                       D.  $(2, -1)$

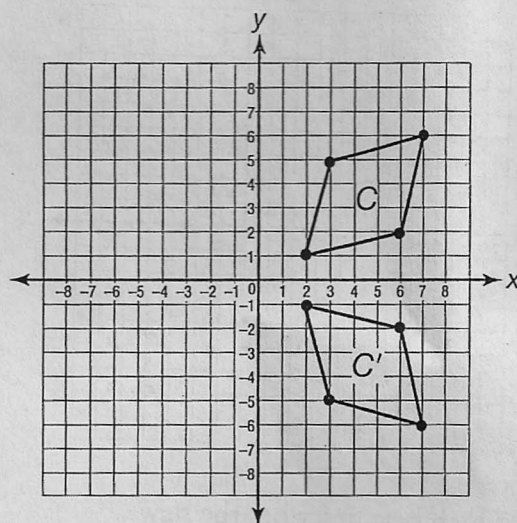
2. Figure  $ABCD$  is a trapezoid.



Which could be the coordinates of point  $D$ ?

- A.  $(-3, 0)$                       C.  $(3, 0)$   
B.  $(0, -3)$                       D.  $(0, 3)$

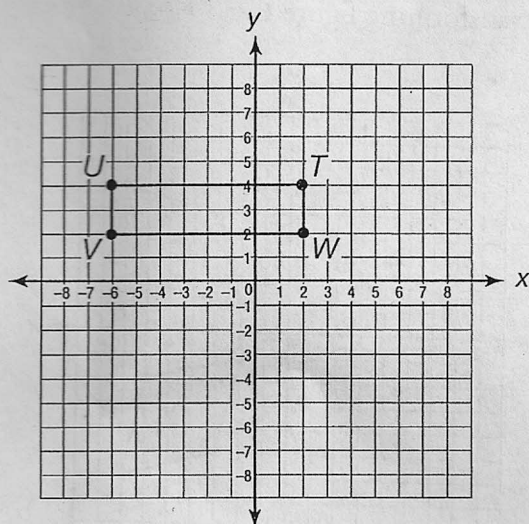
3. Stephanie created the design below by transforming figure  $C$ .



Which best describes the transformation?

- A. Figure  $C'$  is a translation 2 units down of Figure  $C$ .  
B. Figure  $C'$  is a translation 1 unit right and 2 units down of Figure  $C$ .  
C. Figure  $C'$  is a reflection of Figure  $C$  over the  $x$ -axis.  
D. Figure  $C'$  is a reflection of Figure  $C$  over the  $y$ -axis.

4. Isaac reflects rectangle  $TUVW$  over the  $x$ -axis to create rectangle  $T'U'V'W'$ . Then he creates a new quadrilateral by connecting, in order, points  $T$ ,  $U$ ,  $U'$ , and  $T'$ .

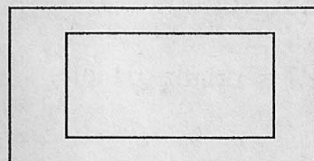


Which best describes the new quadrilateral?

- A. square  
B. rectangle  
C. rhombus  
D. trapezoid
5. A triangular window has a base of 13.5 centimeters and a height of 9 centimeters. An architect enlarges the window so that the base of a similar window is 18 centimeters. What is the height of the enlarged window?

- A. 6.75 cm  
B. 12 cm  
C. 13.5 cm  
D. 27 cm

6. A rectangular patio around a pool is similar to the pool as shown below. The pool is 32 feet long and 16 feet wide.



If the patio is 48 feet long, how wide is the patio?

- A. 24 ft  
B. 26 ft  
C. 40 ft  
D. 64 ft
7. A photographer prints a rectangular photo that is 4 inches by 6 inches. He then makes the photo available in different sizes. Which of the following sizes is similar to the original photo?
- A. 12 in. by 15 in.  
B. 8 in. by 10 in.  
C. 5 in. by 7 in.  
D.  $2\frac{1}{4}$  in. by  $3\frac{3}{8}$  in.
8. A rectangular logo is 8 inches wide by 15 inches long. To fit on a pocket, the logo is changed by a scale factor of 0.25. How many inches long is the logo on the pocket?

0	0	0	0	.	0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9