

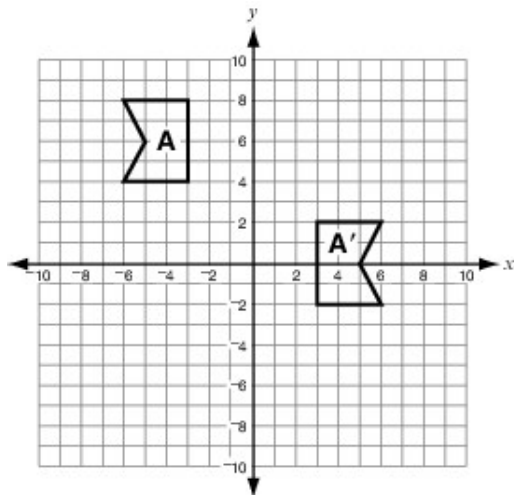
TEST NAME: **Translations & Reflections HW**  
TEST ID: **552753**  
GRADE: **08**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **Shared Classroom Assessments**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

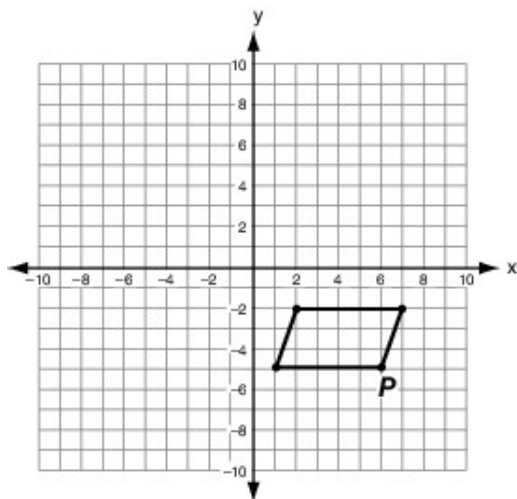
Date: \_\_\_\_\_

1. Which set of transformations could be applied to figure A to prove that it is congruent to figure  $A'$ ?



- A. reflection across the  $y$ -axis and translation down 2 units
- B. reflection across the  $y$ -axis and translation down 6 units
- C. rotation of  $180^\circ$  about the origin, followed by a reflection across the  $x$ -axis
- D. rotation of  $90^\circ$  clockwise about the origin, followed by a reflection across the  $x$ -axis

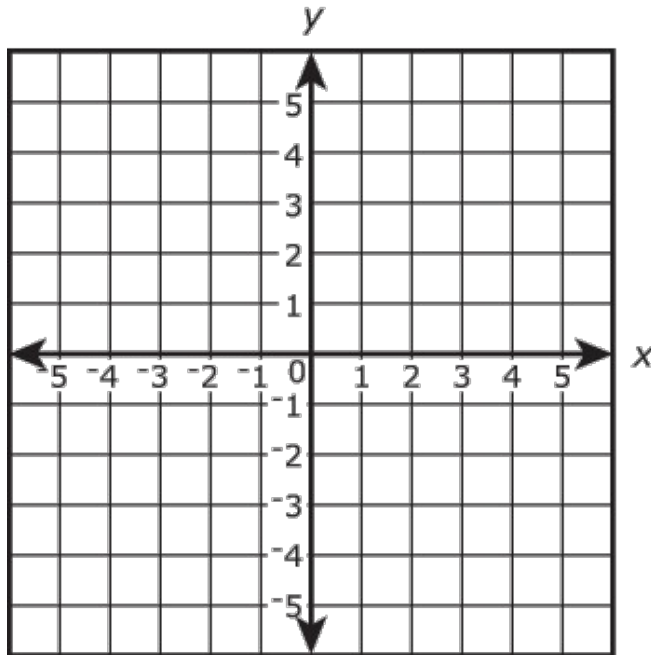
2. The parallelogram shown below is translated 8 units to the left and then reflected across the  $x$ -axis.



What are the coordinates of point  $P$  in the transformed parallelogram?

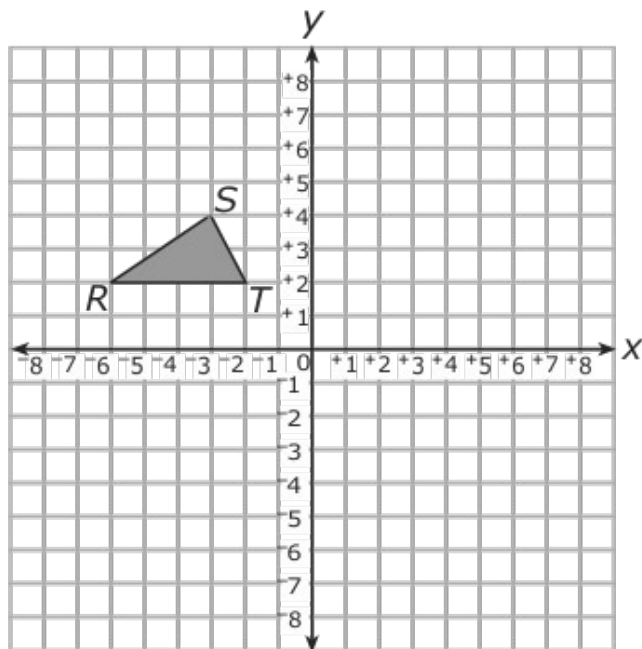
- A.  $(-6, 5)$
- B.  $(-2, -5)$
- C.  $(-2, 5)$
- D.  $(6, 5)$

3. The pre-image coordinates of a triangle are  $X(2, 2)$ ,  $Y(3, 2)$ ,  $Z(5, 4)$ . The image coordinates are  $X'(-2, 2)$ ,  $Y'(-3, 2)$ ,  $Z'(-5, 4)$ . What transformation occurred?



- A. slide of 4 units up  
B. slide of 4 units down  
C. reflection over the  $x$ -axis  
D. reflection over the  $y$ -axis
4. Rectangle  $EFGH$  has vertices at  $E(-5, 2)$ ,  $F(-2, 2)$ ,  $G(-5, 0)$ , and  $H(-2, 0)$ . Rectangle  $EFGH$  will be translated 3 units down. What will be the coordinates of  $G'$ ?
- A.  $(-5, 3)$   
B.  $(-5, -3)$   
C.  $(-8, 0)$
5. Point  $W$  is located at  $(7, 3)$  on a coordinate plane. Point  $W$  is translated 2 units to the left and 3 units up. What are the coordinates of the image point  $W'$ ?
- A.  $(10, 1)$   
B.  $(9, 0)$   
C.  $(5, 6)$   
D.  $(4, 1)$

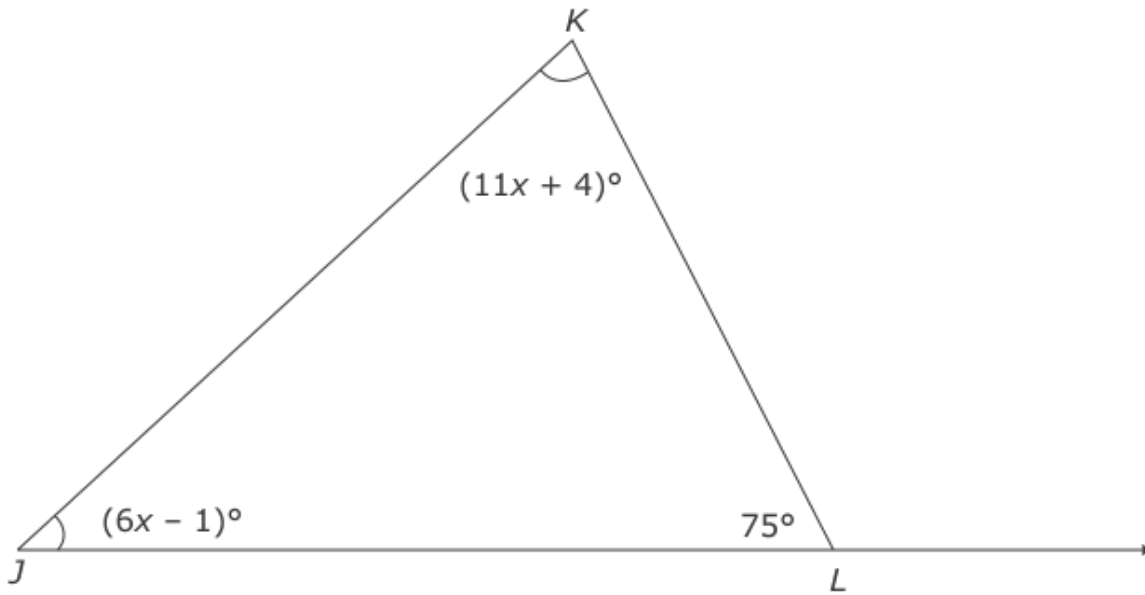
6. Triangle  $RST$  will be reflected across the  $x$ -axis.



What will be the coordinates of the resulting triangle  $R'S'T'$ ?

- A.  $R'(6, 2), S'(3, 4), T'(2, 2)$
- B.  $R'(2, 6), S'(4, 3), T'(2, 2)$
- C.  $R'(-2, 6), S'(-4, 3), T'(-2, 2)$
- D.  $R'(-6, -2), S'(-3, -4), T'(-2, -2)$

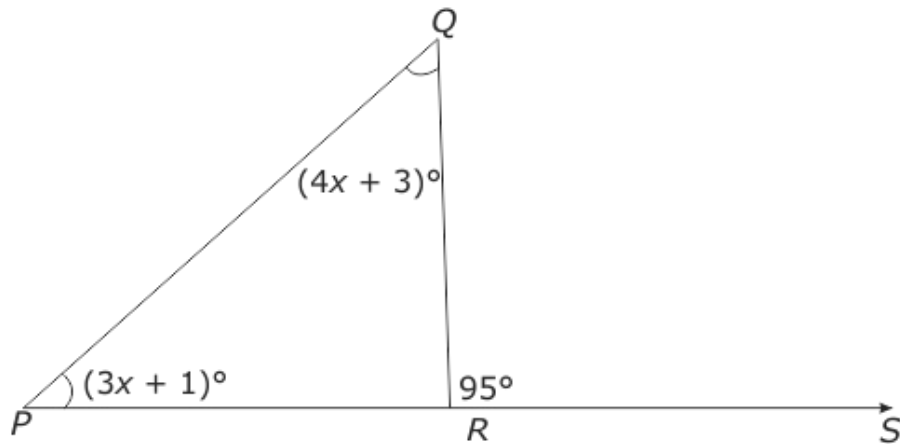
7. Triangle  $JKL$  is shown below.



What is the measure of angle  $KJL$ ?

- A.  $15^\circ$
- B.  $20^\circ$
- C.  $35^\circ$
- D.  $60^\circ$

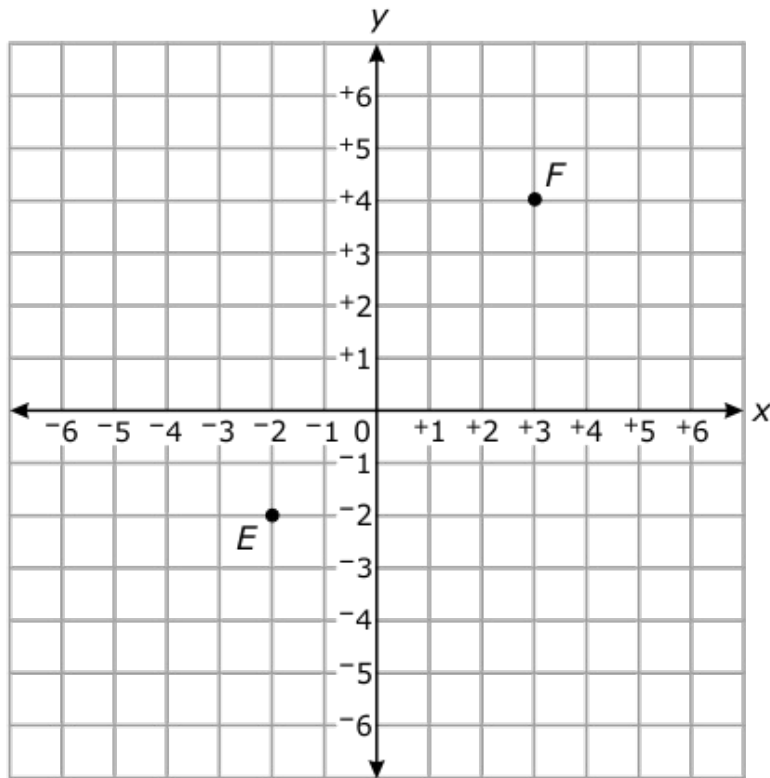
8. Triangle  $PQR$  is shown below.



What is the value of  $x$ ?

- A. 12
- B. 13
- C. 25
- D. 40

9. What is the **approximate** distance between points  $E$  and  $F$  on the graph below?



- A. 6 units  
B. 8 units  
C. 11 units
10. Which fraction is equivalent to  $0.\overline{15}$  ?

- A.  $\frac{5}{33}$   
B.  $\frac{3}{20}$   
C.  $\frac{1}{6}$