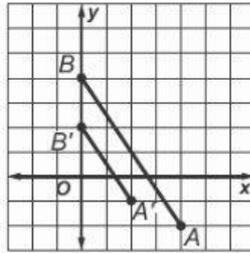




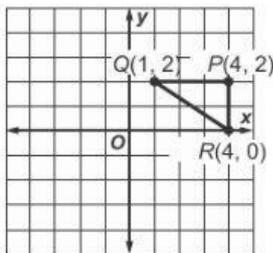
# Test, Form 2A *(continued)*

For Exercises 7 and 8, segment  $A'B'$  is a dilation of segment  $AB$ .



7. What is the scale factor of the dilation? 7. \_\_\_\_\_
  
8. Classify the dilation as an enlargement or a reduction. 8. \_\_\_\_\_
  
9. Triangle  $FGH$  has vertices  $F(3, -1)$ ,  $G(5, -1)$ , and  $H(5, 2)$ . What are the coordinates of the image of point  $H$  after a translation 1 unit to the right and 3 units down? 9. \_\_\_\_\_
  
10. Quadrilateral  $JKLM$  has vertices  $J(-4, 4)$ ,  $K(-4, 1)$ ,  $L(1, 1)$ , and  $M(1, 4)$ . What are the coordinates of the image of point  $K$  after a reflection across the  $x$ -axis? 10. \_\_\_\_\_

11. What are the coordinates of the image of point  $P$  after  $\triangle PQR$  is rotated  $90^\circ$  counterclockwise about point  $Q$ ?



11. 11. \_\_\_\_\_
  
12. Triangle  $ABC$  has vertices  $A(0, 4)$ ,  $B(-1, 4)$ , and  $C(0, -3)$ . What are the coordinates of the image of point  $A$  after a dilation with a scale factor of 2? 12. \_\_\_\_\_