

Name \_\_\_\_\_  
Teacher \_\_\_\_\_  
Class period \_\_\_\_\_

Date \_\_\_\_\_

## Unit 2 Test REVIEW

Transformations

1. Name the three transformations that are an isometry (keep same size and shape). Name the one transformation that is not an isometry.

\_\_\_\_\_, \_\_\_\_\_,

\_\_\_\_\_.

NOT? \_\_\_\_\_

2. Write the algebraic representations that correctly describes a reflection over the y-axis.

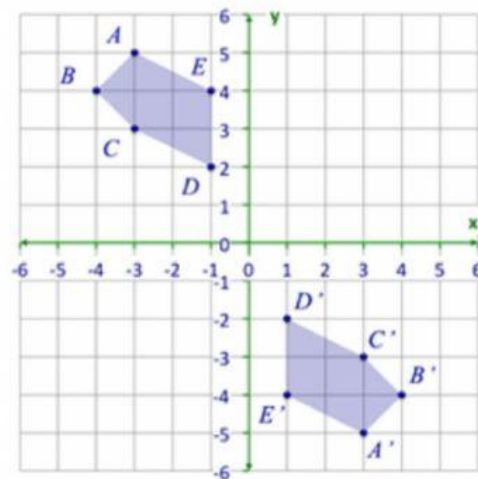
$$(x, y) \rightarrow ( \quad , \quad )$$

Over x-axis?  $(x, y) \rightarrow ( \quad , \quad )$

3. What is the ordered pair rule for a translation 5 units right and 3 units down?

$$(x, y) \rightarrow (x \quad , y \quad )$$

4. Describe the graph below with regard to the rotation shown.



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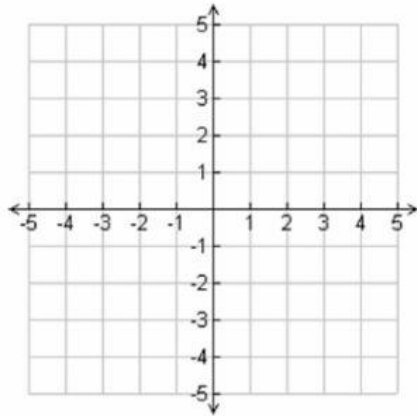
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## Unit 2 Test REVIEW

### Transformations

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Figure 1 is for questions 5, 6, and 6



**Figure  $ABCD$  is graphed with vertices  $A(7, 3)$ ,  $B(4, 5)$ ,  $C(3, 4)$  and  $D(4, 2)$ .**

5. **The image of  $ABCD$  is under a rotation of  $180^\circ$  about the origin. What is the ordered pair for  $B'$ ?**

6. **The image of  $ABCD$  is under a rotation of  $270^\circ$  clockwise about the origin. What is the ordered pair for  $A'$ ?**

7. **The image of  $ABCD$  is under a reflection over the x-axis. What is the ordered pair for  $C'$ ?**

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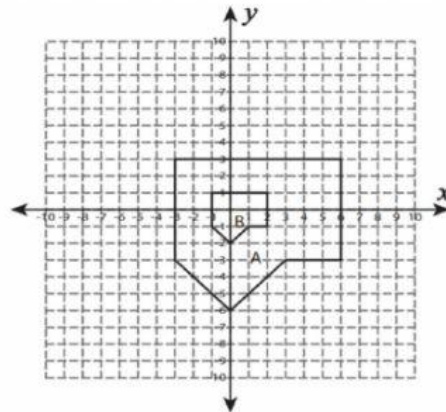
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## Unit 2 Test REVIEW

### Transformations

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8. **Figure A is a dilation of figure B. What is the scale factor?**



Scale factor = \_\_\_\_\_

9. **Find the image of  $(-8, 20)$  with a translation of 5 units right and 2 units down.**

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**12. Circle the letter of the following statements that are true:**

- a. Dilations create similar figures if the scale factor is not 1.
- b. Dilations preserve angle measure.
- c. Dilations can create larger figures or smaller figures.
- d. Dilations produce congruent figures if the scale factor is greater than 1.

**13. Which algebraic representation correctly describes a reflection over the x-axis?**

- a.  $(x, y) \rightarrow (-x, y)$
- b.  $(x, y) \rightarrow (-x, -y)$
- c.  $(x, y) \rightarrow (x, -y)$
- d.  $(x, y) \rightarrow (-y, x)$