Move 4.1-43 Practice

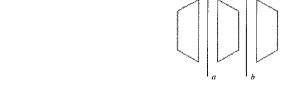
GT GEOMETRY - Bernhard

Name	2 nd	2^{rd}	11th
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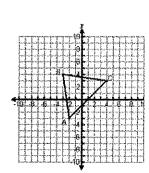
Due at the end of class 11/4

x-axis Reflection	(x,γ)-> (
y-axis Reflection	(x,y)-> (,
y=x Reflection	(x,y)-> (
y=-x Reflection	(x,y)-> (,)
90 degree rotation	(x,y)->-	***************************************
180 degree rotation	(x,y)-> (,
270 degree rotation	(x,y)-> (, >
Identity/360 degree rotation	(x,y)-> /	,)

_1. In the figure below, a || b. Determine whether the third figure is a translation image of the first figure. Write yes or no. Explain your answer.



- a. Yes; it is one reflection after another with respect to the two parallel lines.
- b. No; it is a reflection followed by a translation.
- c. No; it is a reflection followed by a rotation.
- d. No; it is one reflection after another with respect to the two parallel lines.
- 2. \triangle ABC is reflected across the line y = x. What are the coordinates of B' in the new triangle?

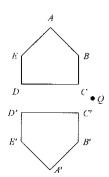


b.
$$(4, -3)$$

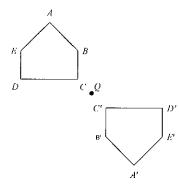
d.
$$(-2, -3)$$

a. (-3.4)

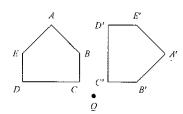
а.



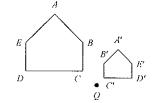
c.



b.

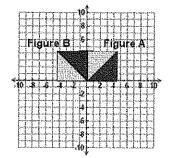


d.



4. Maria is creating a quilt pattern on the grid below.

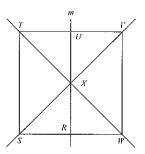
She started by creating Figure A. What type of perform to create Figure B?



transformation did she

- a. 90° rotation
- b. reflection across the y-axis
- c. 45° rotation
- d. translation 4 units to the left

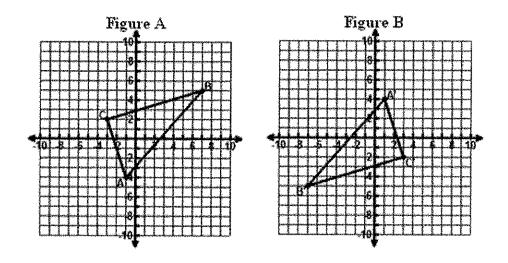
5. Name the image of S reflected over line m.



- a. *T* c. *S*
- b. V d. W

_____6. Figure A shows a triangle on a coordinate grid.

Figure B shows a transformation of that triangle.



Which of the following transformation rules was used to create Figure B?

a.
$$(x, y) \rightarrow (x, -y)$$

c.
$$(x, y) \to (x+2, y+8)$$

b.
$$(x, y) \rightarrow (-x, y)$$

d.
$$(x, y) \rightarrow (-x, -y)$$

_____7. How many lines of symmetry does the figure at the right have?

- a. 0
- b. 8
- c. 2
- d. 4

