5. Which of the following shows a triangle and

1. Which of the following transformations creates a figure that is similar (but not congruent) to the original figure?

I. translation II. rota

II. rotation III. dilation

[A] II only

[B] I only

[C] II and III

[D] I and II

[E] III only

[1]

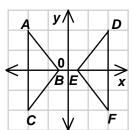
2. Is the following transformation a translation or rotation? Justify your answer.

F

F

[2]

3. Describe two different isometries under which  $\Delta DEF$  is an image of  $\Delta ABC$ .



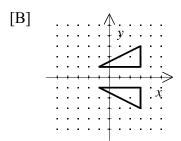
[3]

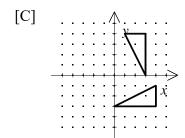
4. Draw square ABCD and draw the diagonal  $\overline{AC}$ . Describe an isometry of ABCD that produces the same diagram.

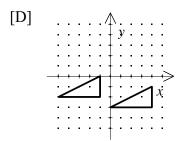
[4]

[A]	$\wedge$
[ <sub>7</sub> <sub>7</sub> ]	4\
	$\cdots + y \cdots \cdots$
	+
	+
	<del></del>
	$\rightarrow$
	†

its translation image?



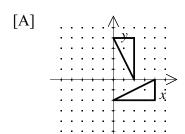


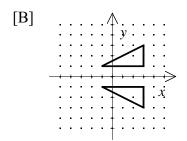


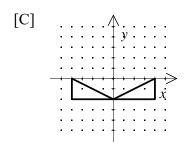
[5]

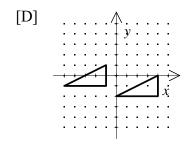
NAME:\_\_\_\_

6. Which of the following shows a triangle and its reflection image in the *y*-axis?

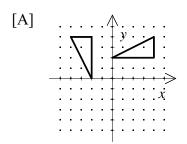


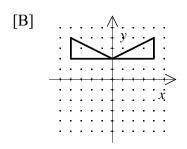


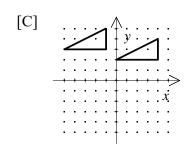


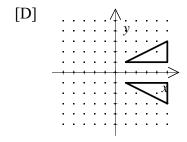


7. Which of the following shows a triangle and its reflection image in the x-axis?



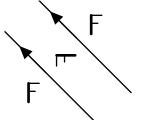






I   L
-------

Translation, because it is a composition of two reflections in the parallel lines shown.



[2]

Either a rotation of 180° about the origin or a

[3] reflection in the *y*-axis.

Answers may vary. Sample: a reflection in

- [4]  $\overline{AC}$
- [5] D
- [6] C
- [7] D