

## Warm Up

Thursday, March 3

1)  $(-3)^4 =$

[Redacted]

8.EE.1

2) Is  $\pi$  a rational or an irrational number?

[Redacted]

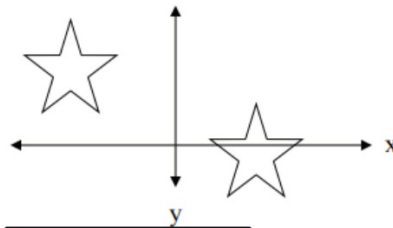
8.NS.1

3) How many solutions does the equation  $3x + 5 = 3x + 5$  have?

[Redacted]

8.EE.7a

4) What term describes the transformation shown below?

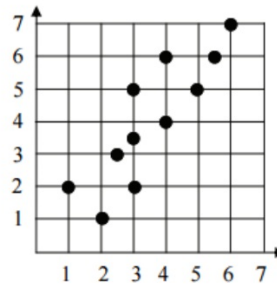


[Redacted]

8.G.2

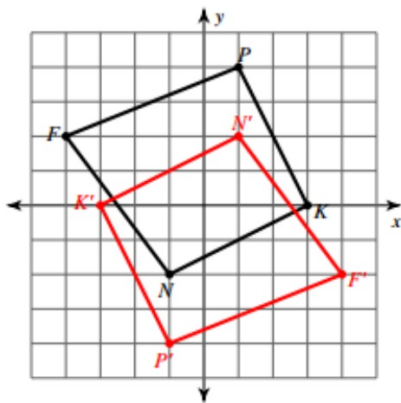
5) What type of association is shown in the scatter plot below?

[Redacted]

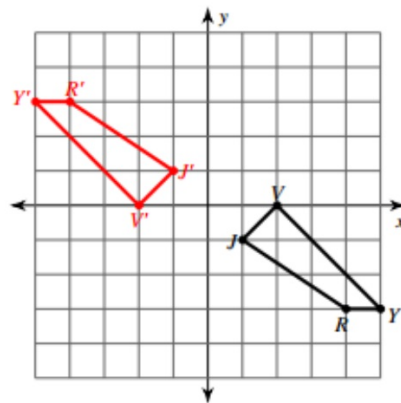


**Graph the image of the figure using the transformation given.**

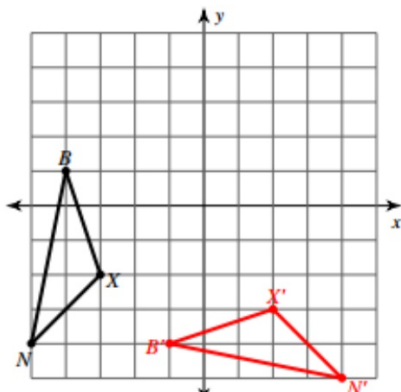
1) rotation  $180^\circ$  about the origin



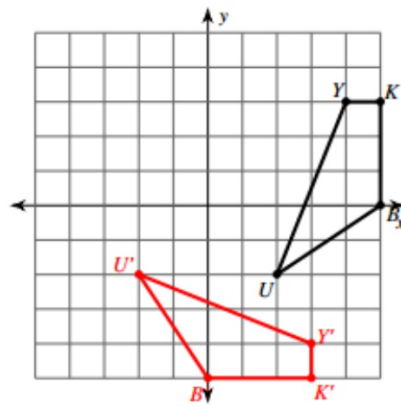
2) rotation  $180^\circ$  about the origin



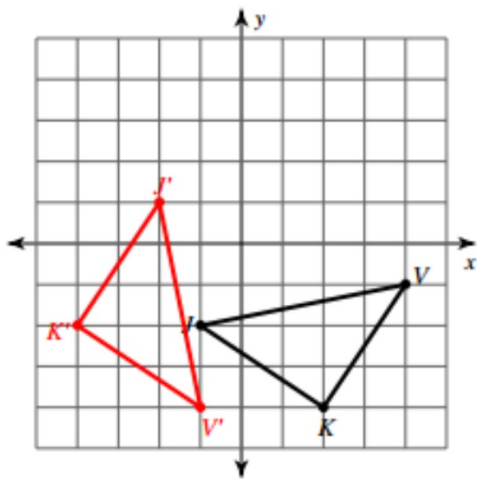
3) rotation  $90^\circ$  counterclockwise about the origin



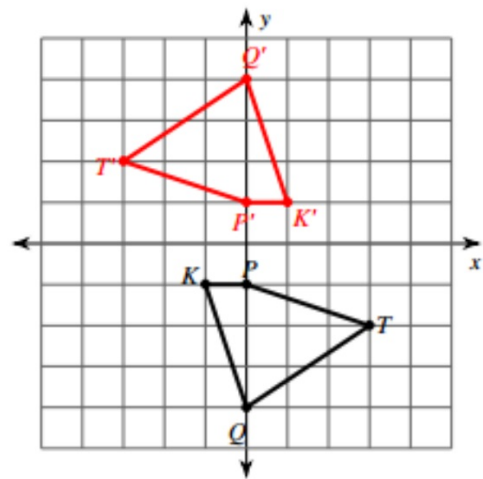
4) rotation  $90^\circ$  clockwise about the origin



5) rotation  $90^\circ$  clockwise about the origin

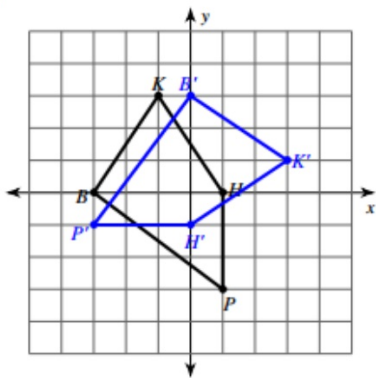


6) rotation  $180^\circ$  about the origin



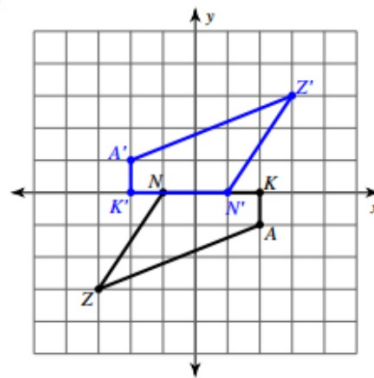
Write a rule to describe each transformation.

7)



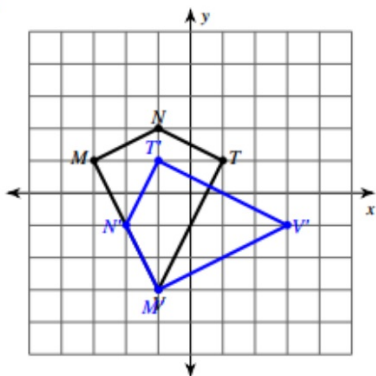
rotation  $90^\circ$  clockwise about the origin

8)



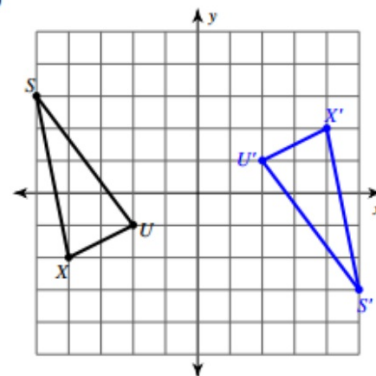
rotation  $180^\circ$  about the origin

9)



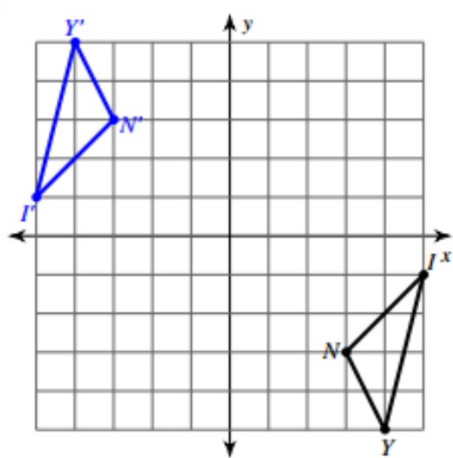
rotation  $90^\circ$  counterclockwise about the origin

10)



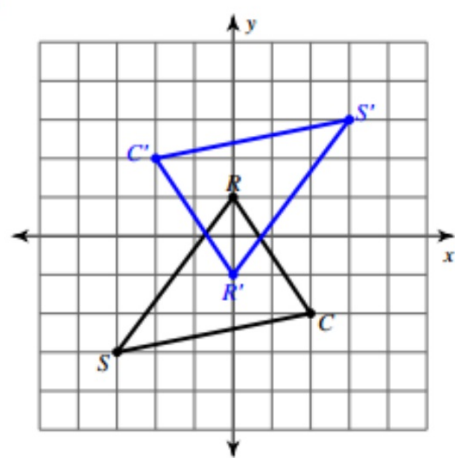
rotation  $180^\circ$  about the origin

11)



rotation  $180^\circ$  about the origin

12)



rotation  $180^\circ$  about the origin

## Transformations Project

### Part 1: Translations

- 1) Draw and number a coordinate plane with a ruler.
- 2) Create a figure made up of at least 5 pts. and connected with straight lines.
- 3) Translate this figure two times correctly.
- 4) Label all points with letters.
- 5) Label all points with ordered pairs.  $(x,y)$
- 6) Color!

\*Please make sure you do this as neatly as possible. There will be points for neatness.

## Transformations Project

### Part 2: Reflections

- 1) Draw and number a coordinate plane with a ruler.
- 2) Create a figure in Quadrant 1 made up of at least 8 pts. and connected with straight lines.
- 3) Reflect figure into Quadrants 2, 3, and 4.
- 4) Label all points with ordered pairs. (x,y)
- 5) Color!

\*Please make sure you do this as neatly as possible. There will be points for neatness.

## Transformations Project

### Part 3: Rotations

- 1) Draw and number a coordinate plane with a ruler.
- 2) Create a figure in Quadrant 1 made up of at least 5 pts. and connected with straight lines.
- 3) Rotate figure 90, 180, and 270 degrees.
- 4) Label all points with ordered pairs. (x,y)
- 5) Color!

\*Please make sure you do this as neatly as possible. There will be points for neatness.



## Transformations Project

### Part 4: Dilations

- 1) Draw and number a coordinate plane with a ruler.
- 2) Create a figure in made up of at least 10 pts. and connected with straight lines.
- 3) Dilate figure by 2 and then by  $\frac{1}{2}$ .
- 4) Label all points with ordered pairs. (x,y)
- 5) Color!

\*Please make sure you do this as neatly as possible. There will be points for neatness.



