## Name: \_\_\_\_\_

## **Geometry Review**

You must label the vertices of your image! All rotations are around the origin.



4) Reflect across y-axis, then across y = x



 A triangle was rotated 90°
clockwise, and the image is shown below. Draw the original figure.



6) What steps would take the preimage to the image?



7) A triangle was rotated 270° counterclockwise, then translated two units down. Then it was rotated 90° clockwise and translated two units up. The image is shown. Draw the original. figure.



## Which transformations would map the rectangle onto itself? Select all that apply.



8)



reflection across the x-axis J. 180° rotation around the origin, then a translation of 2 units up.

## Each sequence of transformations maps trapezoid A <sup>9)</sup>onto trapezoid **B**. Fill in the blanks.



- a) Reflection across the x-axis followed by the translation  $(x, y) \rightarrow$  \_\_\_\_
- b) 180° rotation around the origin followed by the translation  $(x, y) \rightarrow$
- c) 180° rotation around the point (-3, 5) followed by the translation  $(x, y) \rightarrow$
- d) Reflection across the line \_\_\_\_\_ followed by a translation of 9 units to the right
- e) Reflection across the line \_\_\_\_ followed by a reflection across the line

Give the smallest degree of rotation so that the figure maps onto itself. Each figure is regular.

10)



R

16) Challenge: Find all lines of symmetry. Write the equation for each line in slope-intercept form.



Give the most specific name for each quadrilateral given only the information shown.

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