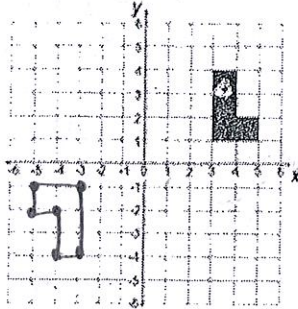


Name: _____ Date: _____

Rotations Practice

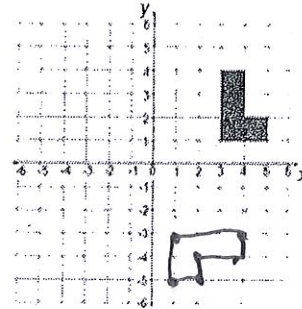
1. Where will the L-Shape be if it is... $(-x, -y)$

a. rotated 180° around the origin?



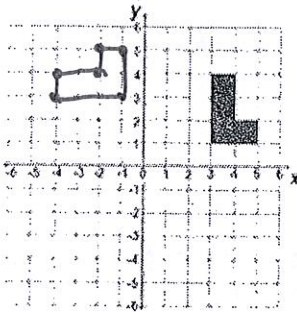
- $(-3, -1)$
- $(-5, -1)$
- $(-5, -2)$
- $(-4, -2)$
- $(-4, -4)$
- $(-3, -4)$

b. rotated 90° clockwise around the origin?



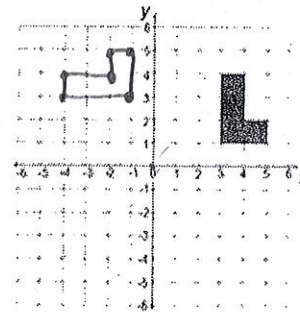
- $(y, -x)$
- $(1, 3)$
 - $(1, -5)$
 - $(2, -5)$
 - $(2, -4)$
 - $(4, -4)$
 - $(4, -3)$

c. rotated 90° counterclockwise around the origin?



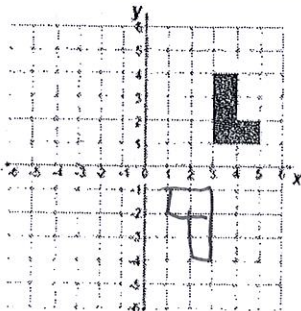
- $(-1, 3)$
- $(-1, 5)$
- $(-2, 5)$
- $(-2, 4)$
- $(-4, 4)$
- $(-4, 3)$

d. rotated 270° clockwise around the origin?



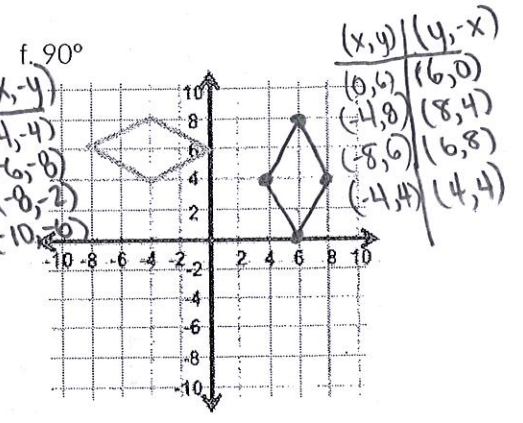
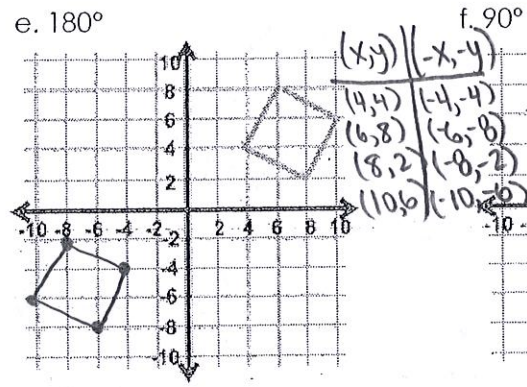
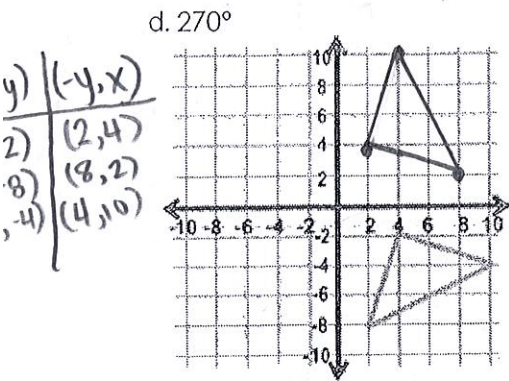
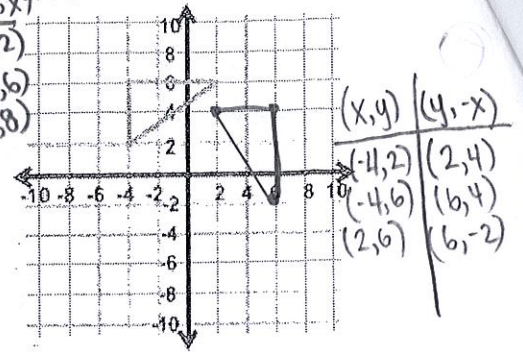
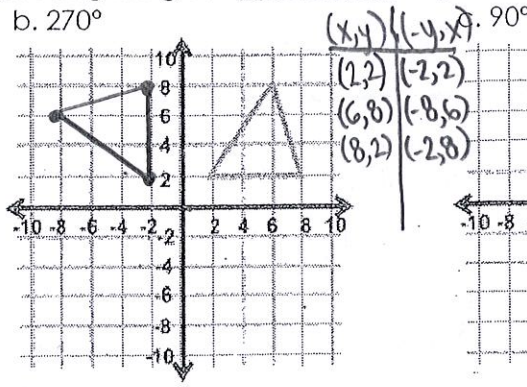
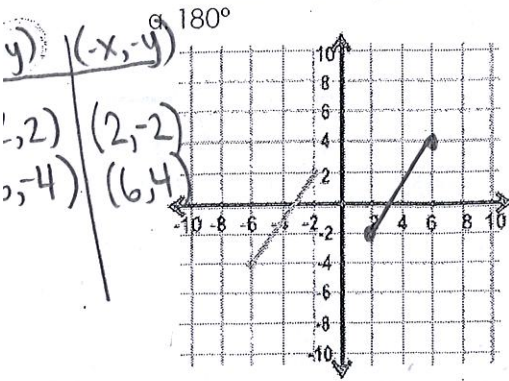
← Same →
 $(-y, x)$

e. rotated 90° counterclockwise around the point (3, 0)?

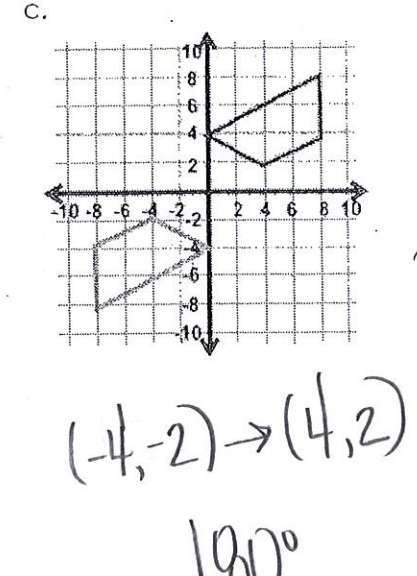
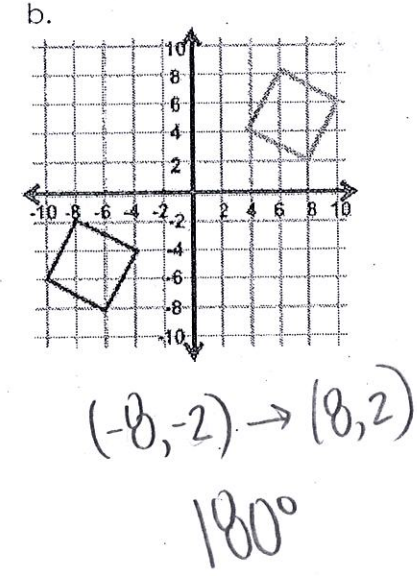
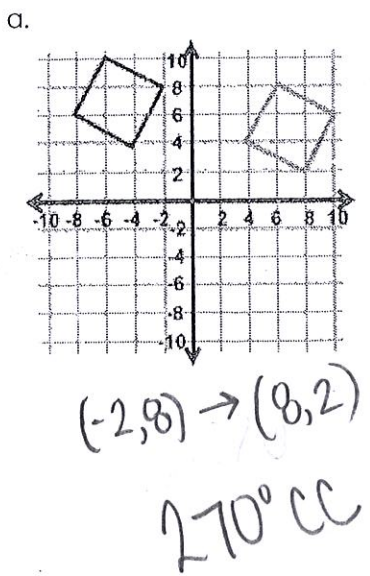


SKIP

2. Rotate each figure about the origin using the given clockwise angle.



3. Find the angle of rotation for the graphs below. The center of rotation is the origin, and the darker image is the preimage. Your answer will be 90° , 270° , or 180° counterclockwise.

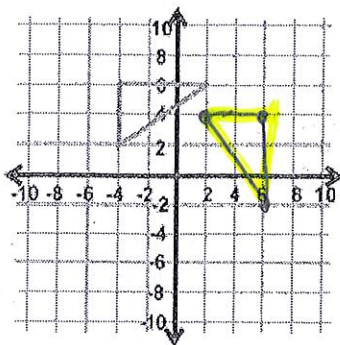


Name: _____ Date: _____

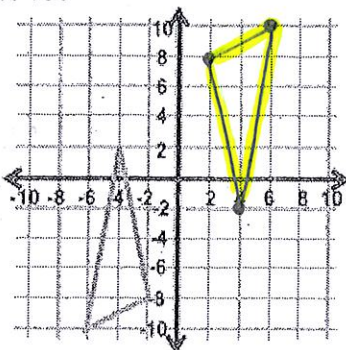
Rotations Homework

1. Rotate each figure about the origin using the given clockwise angle.

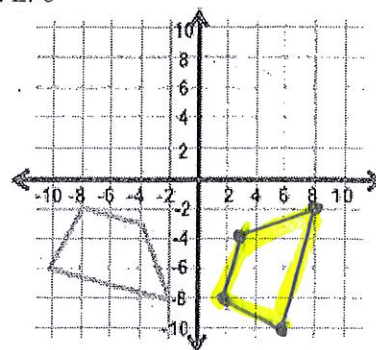
a. 90°



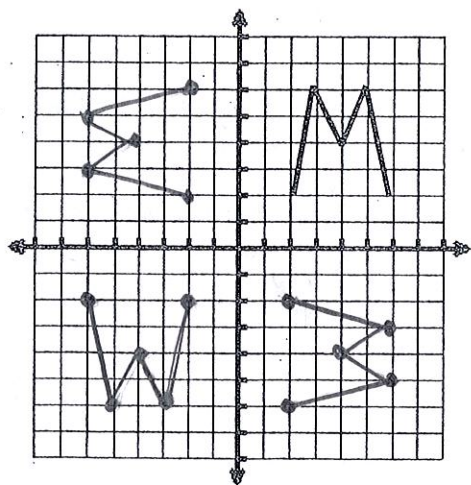
b. 180°



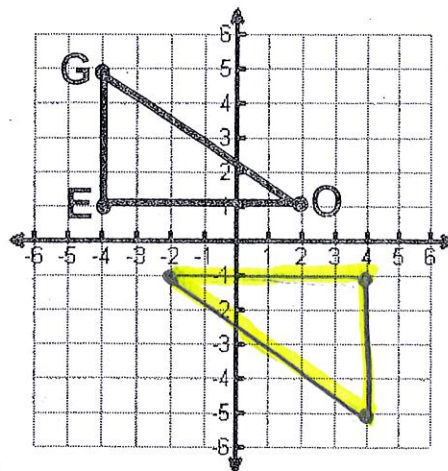
c. 270°



d. 90° , 180° , and 270°

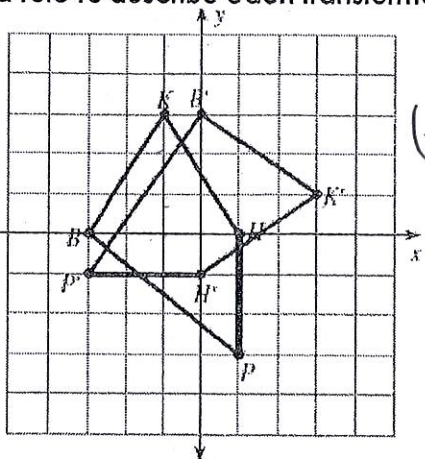


e. 180°

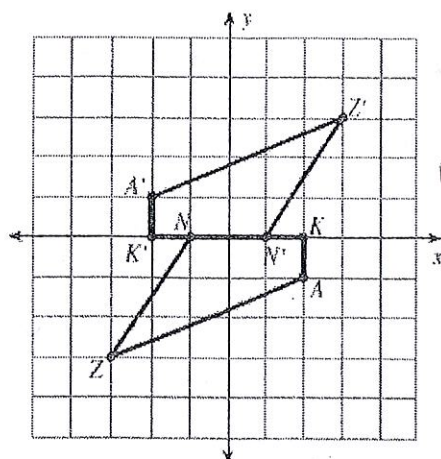


2. Write a rule to describe each transformation.

90c
or
270cc



$(-1, 3) \rightarrow (3, 1)$



180°
 $(-2, 1) \rightarrow (2, -1)$