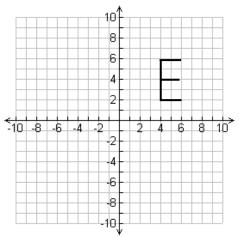
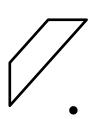
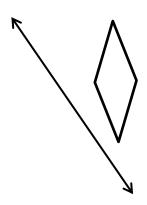
Name:		
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Transformations – Review Worksheet

- 1) Use patty paper to rotate the figure 270° counterclockwise, then translate it by (x + 3, y 4). (Reuse the patty paper for 1, 2, and 3)
- 2) Use patty paper & a protractor to rotate the figure 140° counterclockwise around the given point.
- 3) Use patty paper to reflect the figure across the line.

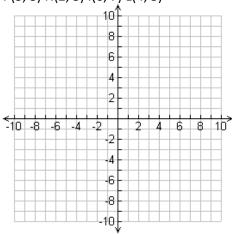




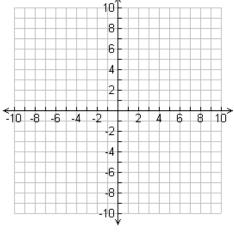


No more patty paper! Label the vertices of your preimage AND your image. All rotations are around the origin.

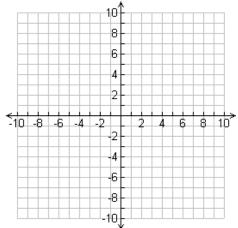
4) Translate 3 up, 2 right P(3, 3) H(2, 5) I(6, 7) L(4, 3)



5) Reflect across x-axis G(-9, -6) U(-5, -9) Y(-3, -8)



6 Rotate 90° counterclockwise B(4, 7) J(4, 9) L(7, 9)



7) Rotate 270° counterclockwise S(4, -3) N(3, -6) A(4, -7) P(5, -6)

8

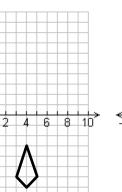
6

-6

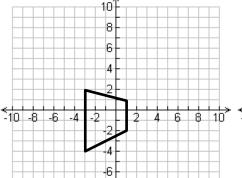
-8

-10<u>|</u>

10 8 6 4 2



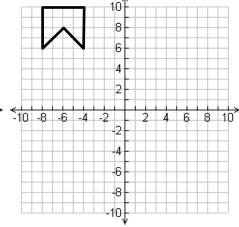
8) Reflect across y-axis Z(-3, 2) O(1, 1) I(1, -2) D(-3, -4)



8

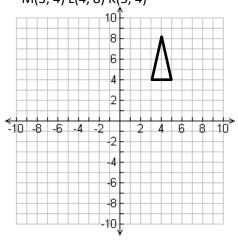
10

9) Reflect across y = 3, then rotate 180° B(-8, 6) A(-8, 10) C(-4, 10) O(-4, 6) N(-6, 8)



10) Rotate 270° clockwise, then translate by (x, y + 5)

M(3, 4) L(4, 8) K(5, 4)



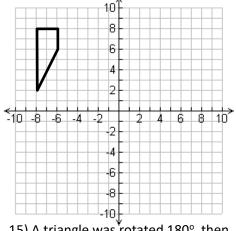
13) An "L" was rotated 270° clockwise, and the image is shown below. Draw the original figure.

reflect across the y-axis

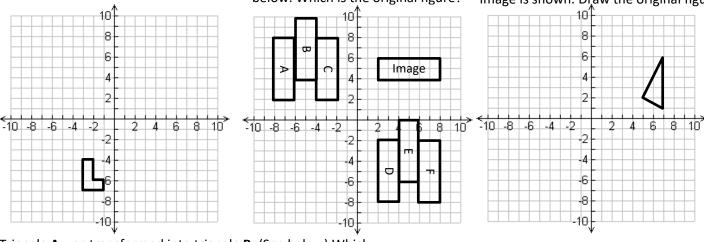
Y(-6, 8) U(-6, 6) P(-2, 7) 10 8 6 2 | 4 | 6 | 8 | 101 2 6 -8

-101-14) A rectangle was translated left two units, then rotated 90° clockwise. The image is shown below. Which is the original figure?

11) Translate by (x + 8, y - 1), then 12) Rotate 90° clockwise, then reflect across the x-axis, then rotate 90° clockwise M(-8, 8) E(-6, 8) O(-6, 6) W(-8, 2)

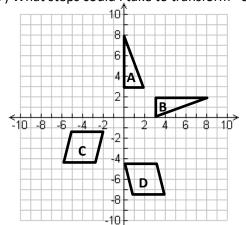


15) A triangle was rotated 180°, then translated two units right and one unit up, then reflected across the x-axis. The image is shown. Draw the original figure.



16) Triangle A was transformed into triangle B. (See below) Which sequence of transformations was used?

- A. 90° clockwise rotation, then reflect across x-axis
- B. 90° clockwise rotation, then translate 2 units up
- C. 90° counterclockwise rotation, then reflect across the y-axis
- 17) What steps could I take to transform "C" onto "D"?



18) Identify at least three different methods you could use to transform square "E" onto square "F".

