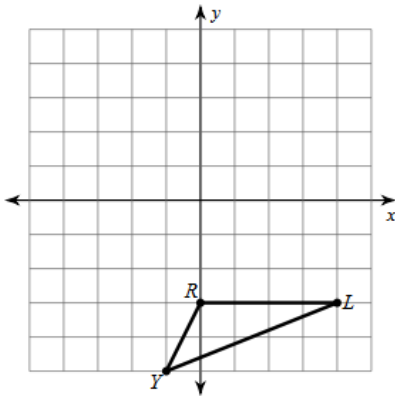


Unit 1 – Rigid Motion and Mapping Review

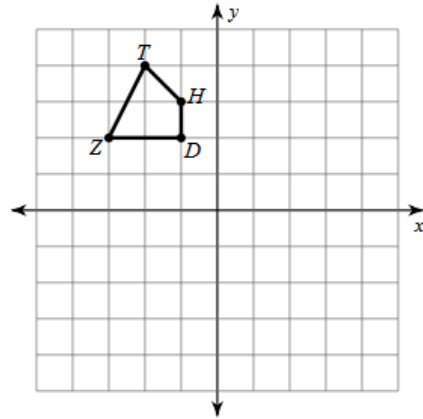
Name: _____ Block: _____

Directions: Graph the following transformations or write out the new coordinates, then write the generic coordinate.

1. Rotate 90° CCW about the origin, then translate down 3.

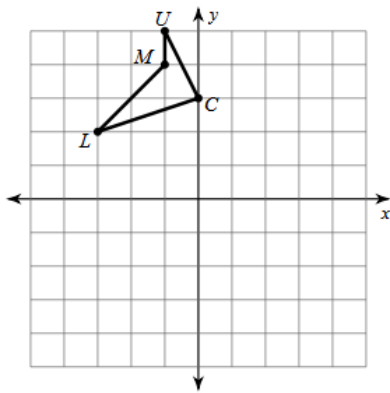


2. Reflect over the x-axis, then rotate 180° about the origin.

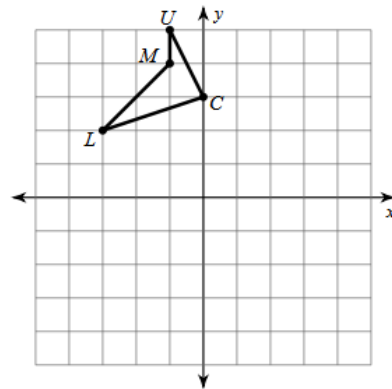


Directions: Graph the following transformations.

3. Reflection over $x = 1$

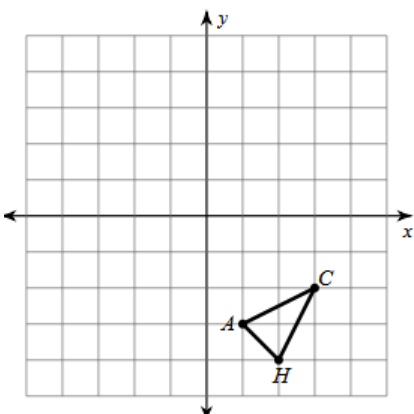


4. Reflection over $y = 3$.

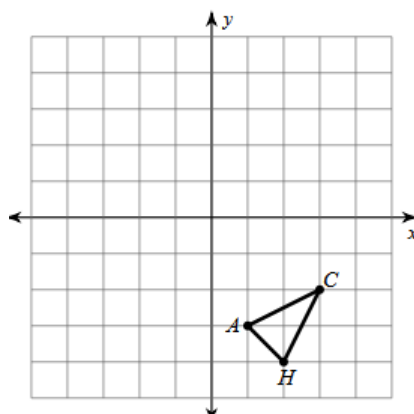


Directions: Graph the following transformations.

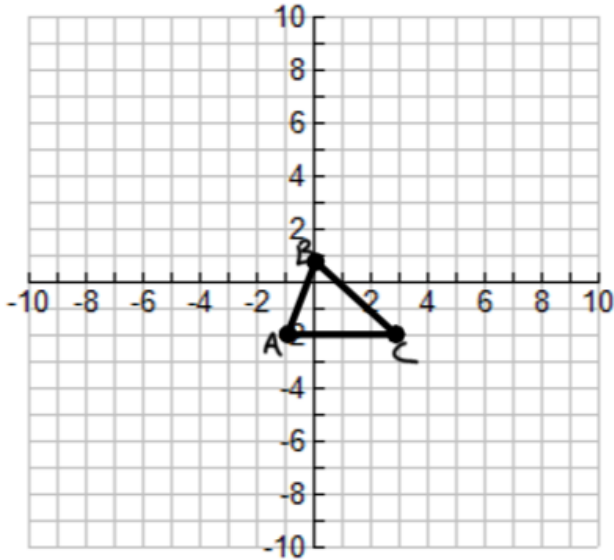
5. Rotation of 270° CW about $(-3, -1)$



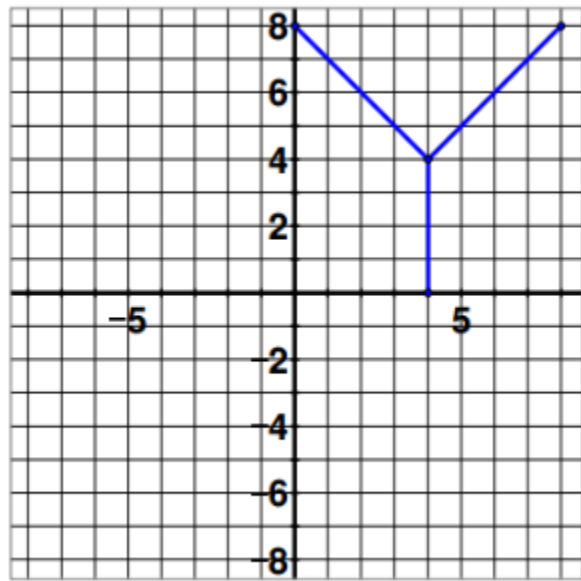
6. Rotation of 270° CW about $(-1, 2)$



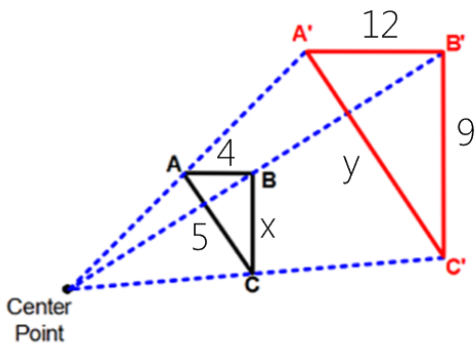
7. Draw a dilation of triangle ABC on a coordinate plane, with points A(-1,-2), B(0,1), and C(3,-2). Use the origin as the center of dilation and a scale factor of 3. Then list the coordinates of the image.



8. Dilate given center (4,-4) and a scale factor of $\frac{1}{4}$.



9. Given the following dilation, identify the type of dilation given, the scale factor, and find the missing values for x and y.



Dilation _____

Scale factor _____

x = _____

y = _____

Unit 1 – Rigid Motion and Mapping Review Answers

1. $R' (3,-3)$; $L' (3,1)$; $Y' (5,-4)$; $(-y, x-3)$
2. $H' (1,3)$; $D' (1,2)$; $T' (2,4)$; $S' (3,2)$; $(-x, y)$
3. $C' (2,3)$; $M' (3,4)$, $U' (3,5)$, $L' (5,2)$
4. $C' (0,3)$; $M' (-1,2)$, $U' (-1,1)$, $L' (-3,4)$
5. $A' (-1,3)$; $C' (2,5)$; $H'(0,4)$
6. $A' (3,-1)$; $C' (2,1)$; $H' (4,0)$
7. $A' (-3,-6)$; $B' (0,3)$; $C' (9, -6)$
8. $(3,-1)$; $(5,-1)$; $(4,-2)$; $(4,-3)$
9. Enlargement; 3; $x = 3$; $y = 15$