

Name _____

Algebraic Reflection activity

1. Complete the chart for $y = \frac{x-3}{2}$.

X	Y
-1	
1	
3	
5	
7	

2. Plot the points and draw the line (in dark pencil) that passes through them.
3. Interchange the x- and y-coordinates of the ordered pairs from the chart above and place in the chart below.

X	Y

4. Plot the new points and draw the line (dark pencil) that passes through them.
5. Write an equation for the line in the previous step. $Y =$ _____
6. Complete the chart for $y = x$

X	Y
-5	
-2	
0	
4	
7	

7. Plot the points and draw the line (with a colored marker) that passes through them.
8. Fold the paper along the colored $y = x$ line. **Describe** the relationship between the two lines drawn in pencil.

9. What type of transformation did you perform in this activity? _____
10. Write the rule $(x,y) \rightarrow (\quad , \quad)$