
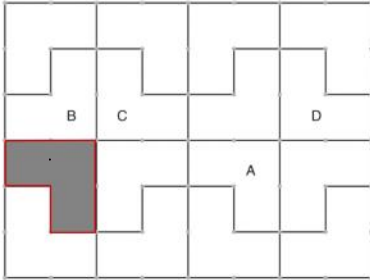


8.4 Identifying transformations

Wednesday, May 18, 2016 8:31 AM

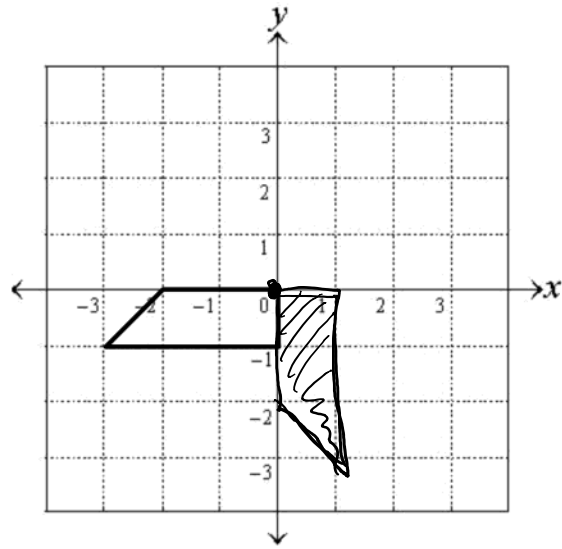


Microsoft Word - 8.4

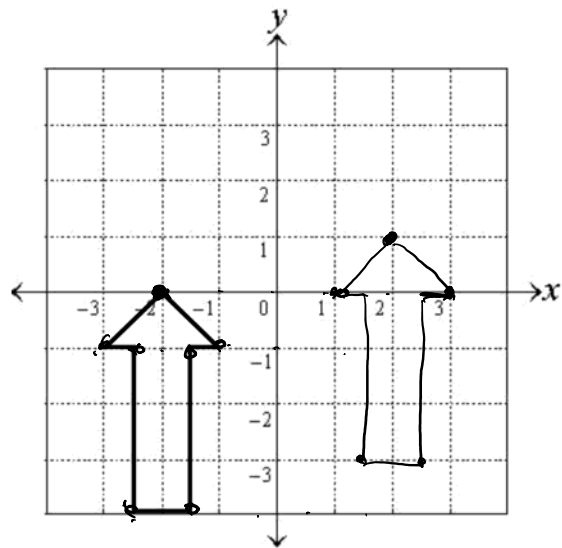
<p>Topic: 8.4 Identifying Transformations</p>	<p>Name: _____</p> <p>Class: Math 8</p> <p>Date: _____</p>
<p>Questions/Main Ideas:</p>	<p>Notes:</p>
<p>Learning Intention:</p>	<p>Recognize <u>transformation images</u>.</p>
<p>Quick Review:</p>	<p>An image can relate to its original image by a</p> <ul style="list-style-type: none"> • <u>Reflection</u> <ul style="list-style-type: none"> ○ A shape is reflected in a <i>line of reflection</i>. This line could be horizontal or vertical (or even on an angle-diagonal) ○ The reflected shape is congruent to the original. • <u>Translation</u> <ul style="list-style-type: none"> ○ A shape is moved to the <u>right or left</u> and <u>up or down</u> or some combination. ○ The transformed shape is <u>congruent</u> and has the <u>same</u> orientation to the original. • <u>Rotation</u> <ul style="list-style-type: none"> ○ A shape is rotated around a point. This could be clockwise or counterclockwise at 90°, 180°, 270°. ○ The rotated shape is congruent to the original. ○ Don't forget the Point of Rotation.
<p>Transformation means a change.</p> 	 <p>Look at the shaded image. What has to happen in order for it to move to :</p> <p>A: translation 2 spaces right</p> <p>B: reflection or a rotation 90° clockwise or 270° counterclockwise.</p> <p>C: reflect diagonally or rotate 180°</p> <p>D: rotate 180° around the origin (middle)</p>

Something challenging

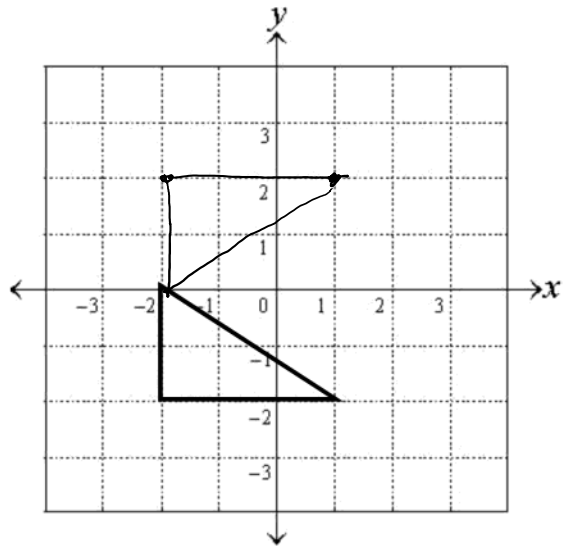
Graph the image of the figure using the transformation given.



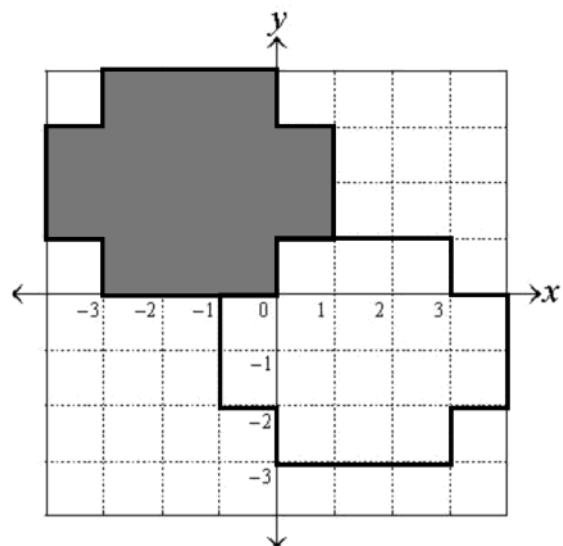
Rotate 90° counterclockwise about the origin



Translation: 4 units right and 1 unit ~~down~~ up



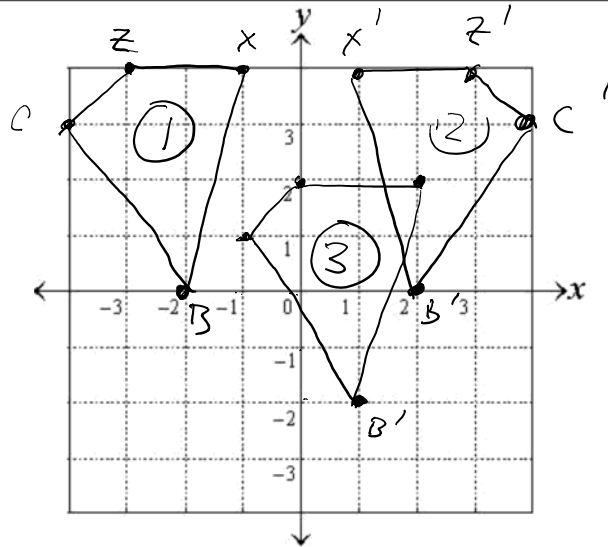
Reflection across the x -axis.



Write a rule to describe the transformation. The shaded figure is the original and the non-shaded is the changed object.

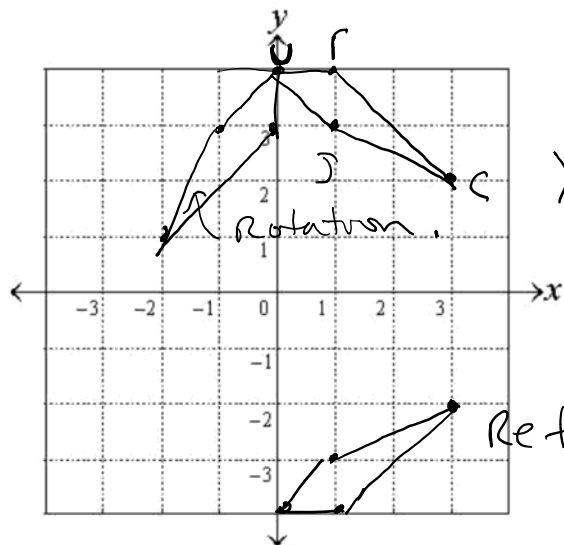
Translation: Right 3 Down 3
R3 D3

Cool website for ambigrams. Here is John Langdon's website for more ambigrams. He did work on DaVinci Code and Angels & Demons movies.



Graph the image of the figure using the transformation given.

- $B(-2,0)$, $C(-4,3)$, $Z(-3,4)$, $X(-1,4)$ Reflect on the y -axis
- $B(-2,0)$, $C(-4,3)$, $Z(-3,4)$, $X(-1,4)$ 3 units right, 2 ~~up~~ down



Graph the image of the figure using the transformation given.

- $J(1,3)$, $U(0,4)$, $R(1,4)$, $C(3,2)$ reflect on x -axis
- $J(1,3)$, $U(0,4)$, $R(1,4)$, $C(3,2)$ rotate 90° clockwise (around point U)

Next Step:

p 460 # 5, 6, 7, 8, 11

before you leave.