

SECTION 4.2: REFLECTIONS

Homework: _____

Learning Targets:

- 4a. Understanding of how to perform translations, rotations, reflections, & dilations on a coordinate plane.
- 4b. Understanding of how to read and write transformation rules.
- 4c. Understanding of how to perform compositions of translations, rotations, and reflections.
- 4d. Understanding of how to read and write composition transformation rules.
- 4e. Understanding of which transformations maintain congruency.
- 4f. Understanding of how to find missing measures or solve equations given different transformations.

Vocabulary:

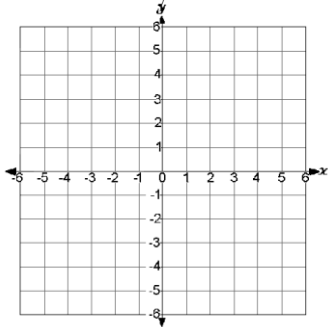
Line of Reflection

Line of Symmetry

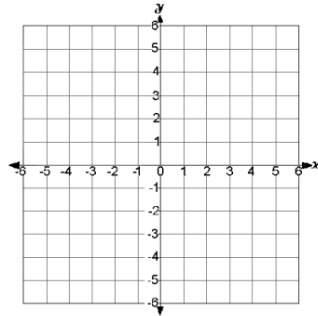
Reflection

Reflect $\triangle ABC$ over the given line of reflection, $A(3, 4)$, $B(0, 4)$, and $C(-2, 2)$. Determine the coordinates for each image.

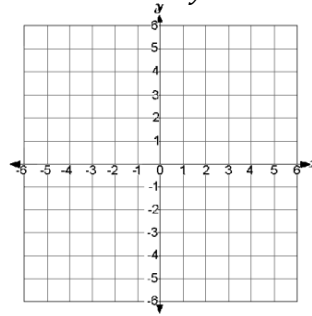
1. over y - axis



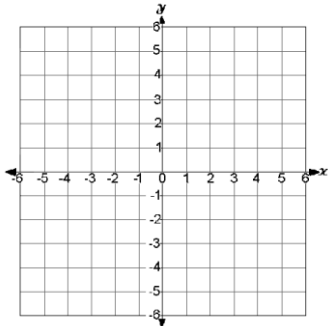
2. over x - axis



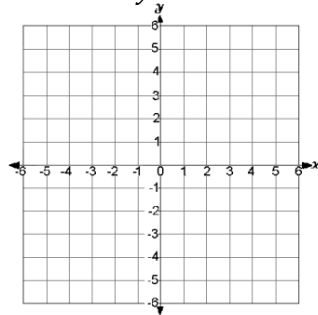
3. over $y = x$



4. over $x = 2$



5. over $y = -1$



6. over $x = -2$

