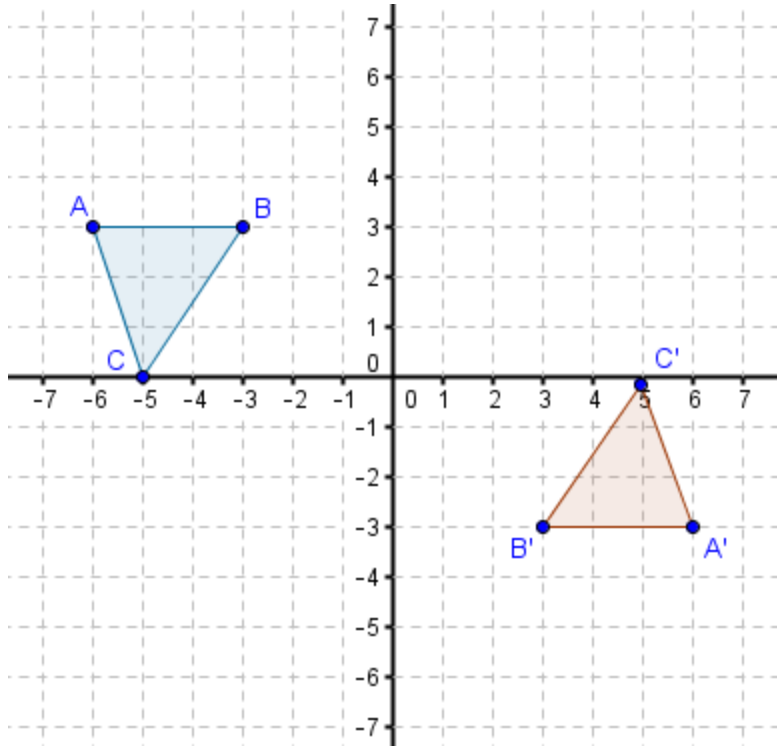Name: _____ Date: _____ Period: _____

Transformations Homework -- Mixed Practice

Directions: Given the pre-image, find two possible ways to get the following image.
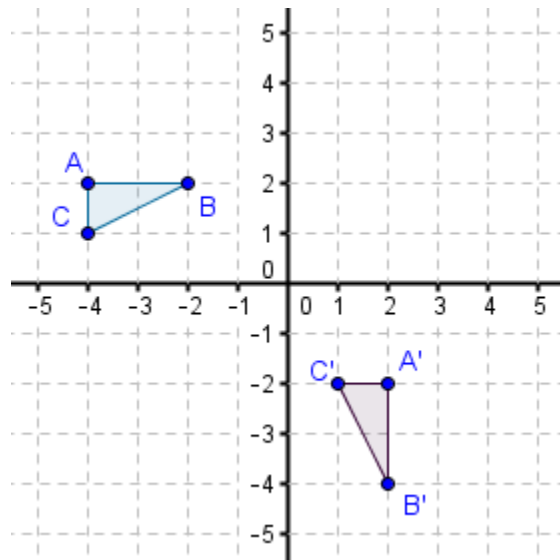
1.

Method 1: _____

_____

Method 2: _____

_____

2. Meredith performed the transformations below. She used a rotation first and then a translation. Verify that her method is possible by describing the transformations she may have used.
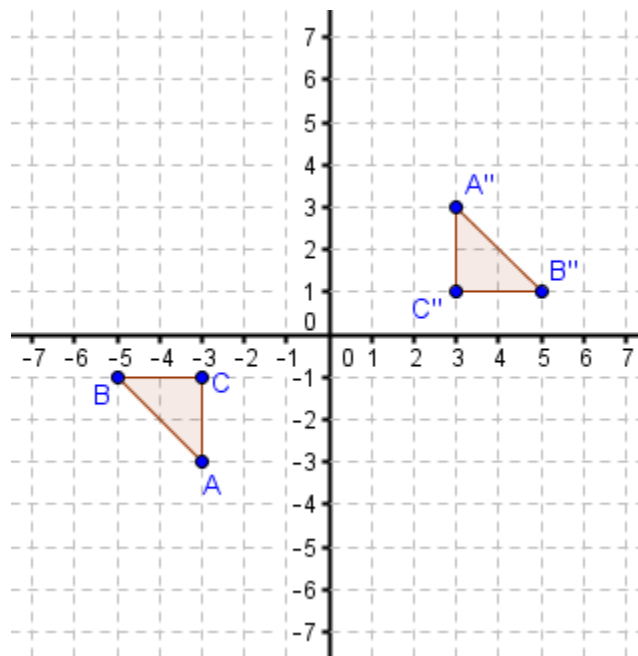

_____

_____

_____

_____

_____

3. In the graph below, there is a pre-image and an image, but we do not know how to get from the pre-image to the image. Three students think they found a possible set of transformations. Which student(s) are correct? Construct an argument that justifies your answer.

Jackie: If you rotate $\Delta\ ABC$ $180°$ clockwise, then you will get the $\Delta\ A'B'C'$.

Joe: If you reflect the pre-image across the y-axis, and then reflect that image across the x-axis, you will get $\Delta\ A'B'C'$.

Damien: If you reflect the pre-image across the x-axis and then rotate that image $90°$ clockwise, you will get $\Delta\ A'B'C'$.

Jackie: _____

_____

Joe: _____

_____

Damien: _____

_____