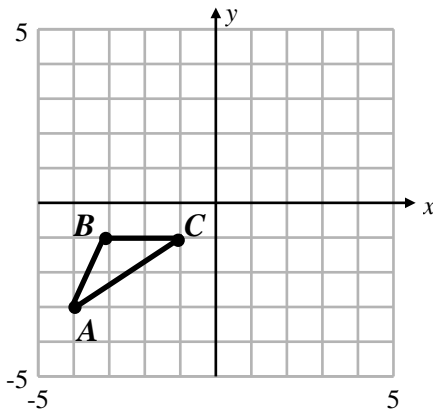


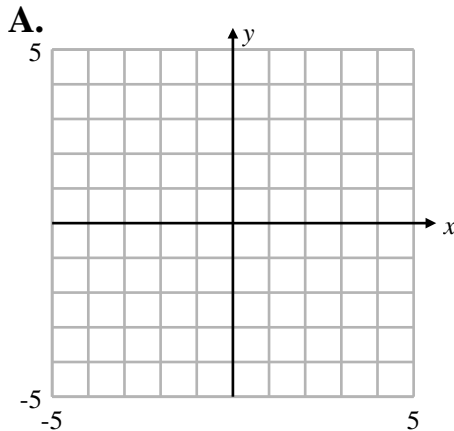


### Transformations: Classwork



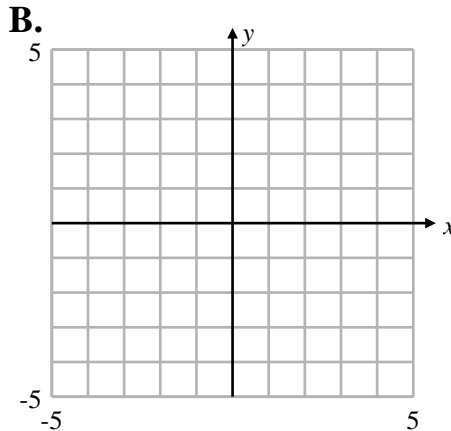
Sketch the graph of  $\Delta A'B'C'$  for each of the following transformations listed below, using the  $\Delta ABC$ . Draw the original triangle and your newly transformed triangle on each grid.

- A. Reflect  $\Delta ABC$  over the  $x$ -axis
- B. Reflect  $\Delta ABC$  over the  $y$ -axis
- C. Translate it by  $(4, 3)$
- D. Rotate it  $180^\circ$  counter clockwise about the origin
- E. Rotate it  $90^\circ$  clockwise about the origin



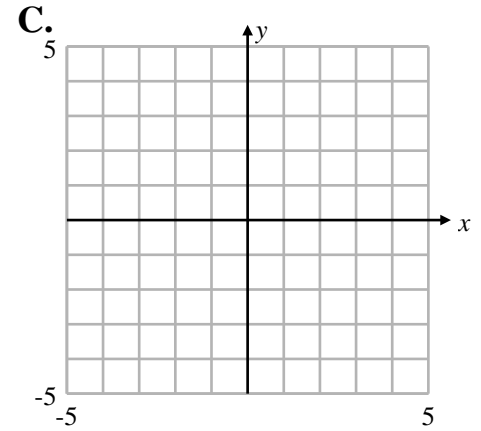
A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

A' \_\_\_\_\_ B' \_\_\_\_\_ C' \_\_\_\_\_



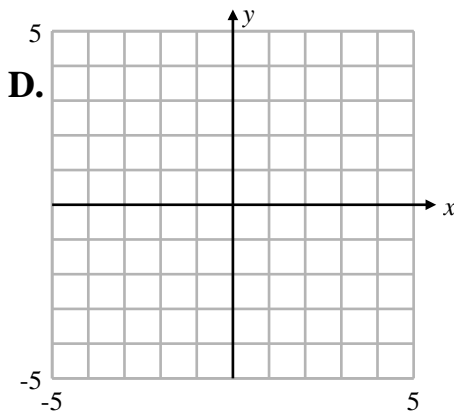
A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

A' \_\_\_\_\_ B' \_\_\_\_\_ C' \_\_\_\_\_



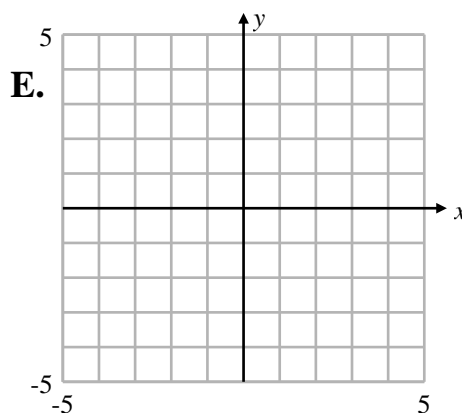
A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

A' \_\_\_\_\_ B' \_\_\_\_\_ C' \_\_\_\_\_



A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

A' \_\_\_\_\_ B' \_\_\_\_\_ C' \_\_\_\_\_



A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

A' \_\_\_\_\_ B' \_\_\_\_\_ C' \_\_\_\_\_

**F.**

a) After reflection, it appears that  $\Delta ABC$  IS or IS NOT congruent to  $\Delta A'B'C'$ .

b) After translation, it appears that  $\Delta ABC$  IS or IS NOT congruent to  $\Delta A'B'C'$ .

c) After rotation, it appears that  $\Delta ABC$  IS or IS NOT congruent to  $\Delta A'B'C'$ .