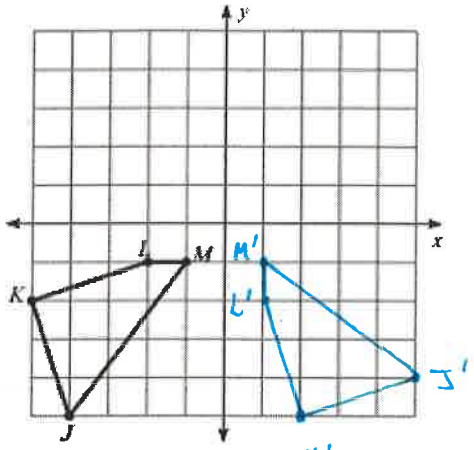
Name: Key Period: _____ Date: _____

3.3 Day 2 Entry Task – Translations, Reflections, and Rotations

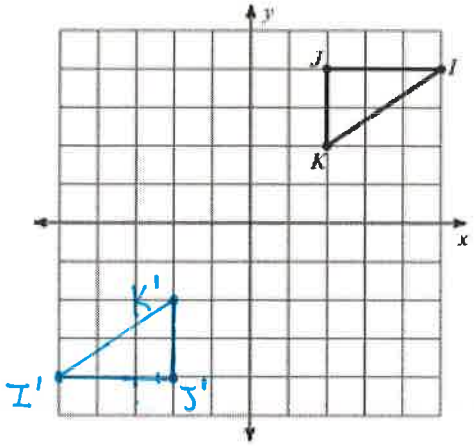
Graph the image based on the transformation that is described. Then use correct notation to write the rule for the transformation.

1) rotation 90° counterclockwise about the origin



Rule: $r_{(90°, O)}(JKLM) = J'K'L'M'$

2) rotation 180° about the origin



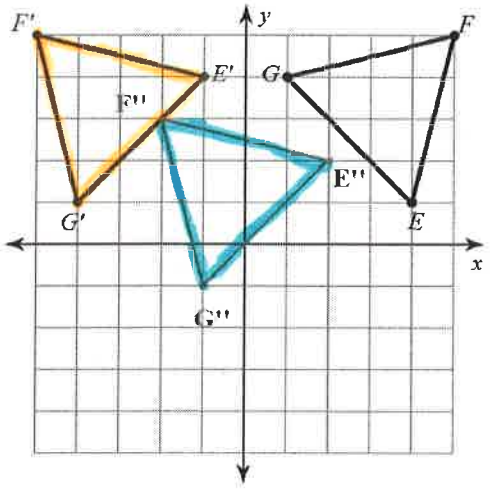
Rule: $r_{(180°, O)}(\Delta IJK) = \Delta I'J'K'$

3) What type of transformation was done to A(-5, 2) if its image is A'(2, 5)?

Rotation 270° (counterclockwise) about the origin

---

4) Using correct notation, write a rule for the composition of transformations that yielded E''F''G''.



$\left(T_{\langle 3,-2\rangle} \circ r_{(90°, O)}\right)(\Delta EFG) = \Delta E'F'G'$