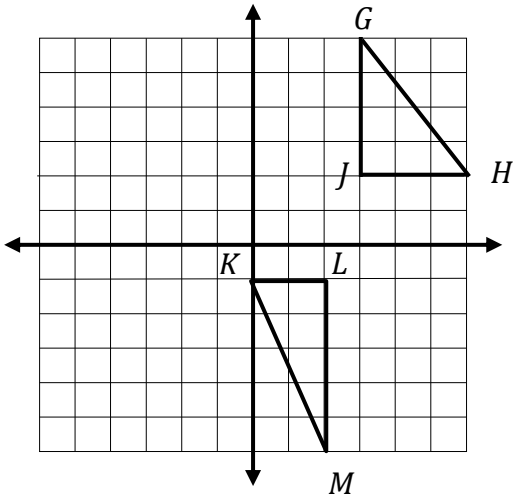


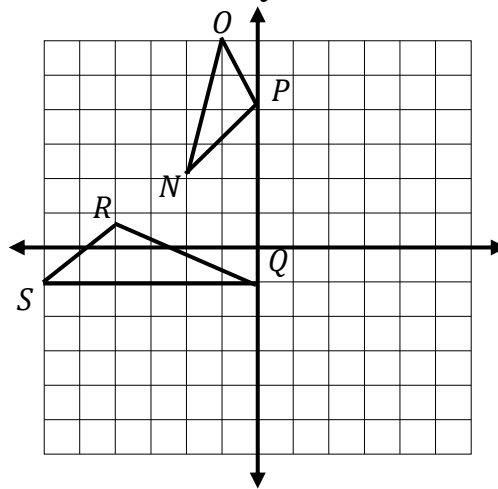
Math 2 Unit 3 Worksheet 6
Transformations

Name: _____
Date: _____ **Per:** _____

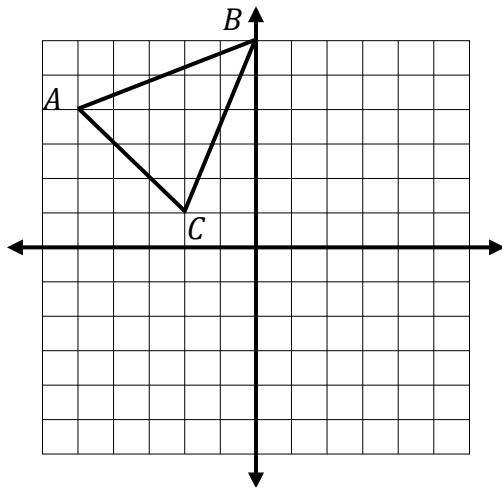
1. a. Reflect $\triangle GHJ$ over the x axis and label $\triangle G'H'J'$
 b. Reflect $\triangle KLM$ over the y axis and label $\triangle K'L'M'$



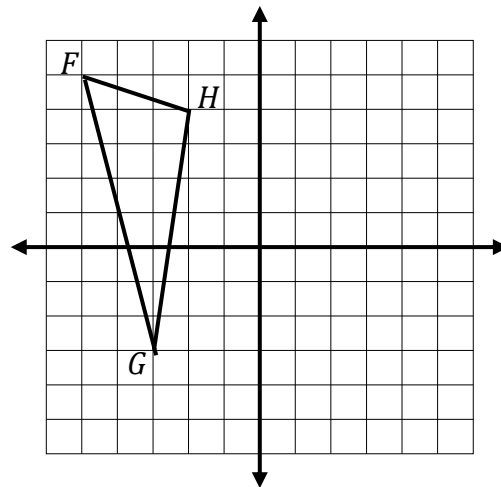
2. a. Reflect $\triangle NOP$ over the line $x = 2$ and label $\triangle N'O'P'$
 b. Reflect $\triangle QRS$ over the line $y = -2$ and label $\triangle Q'R'S'$



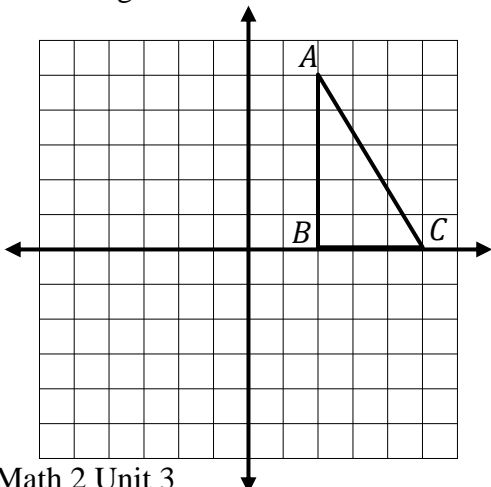
3. Translate $\triangle ABC$ 3 units right and 4 units down. It can also be written as $T\langle 3, -4 \rangle (\triangle ABC)$. Label the \triangle .



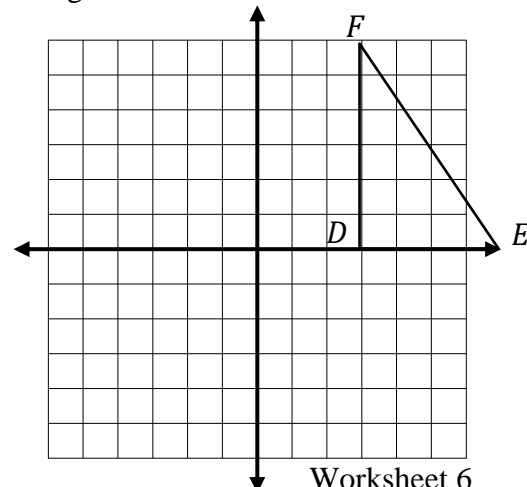
4. Reflect $\triangle FGH$ across $x = -1$ and label the \triangle . It also can be written as $R_{x=-1} (\triangle FGH)$



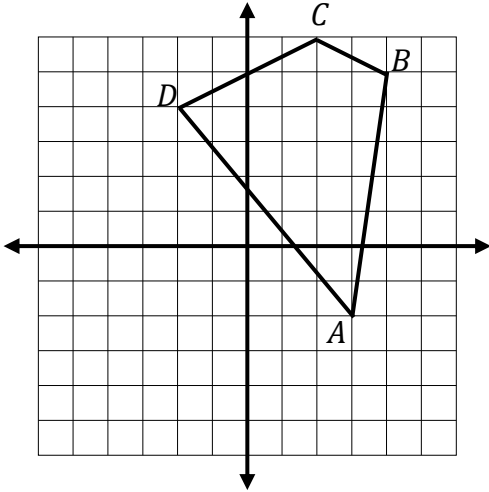
5. Rotate $\triangle ABC$ 90° counterclockwise about the origin. Label the \triangle .



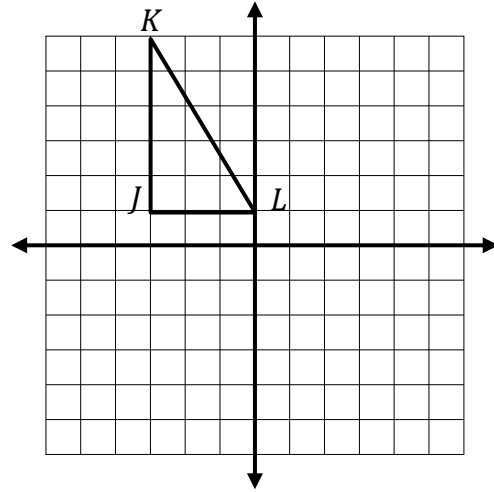
6. Rotate $\triangle DEF$ 180° clockwise about the origin. Label the \triangle .



7. Rotate Quad $ABCD$ 90° clockwise about the origin. Label the image.

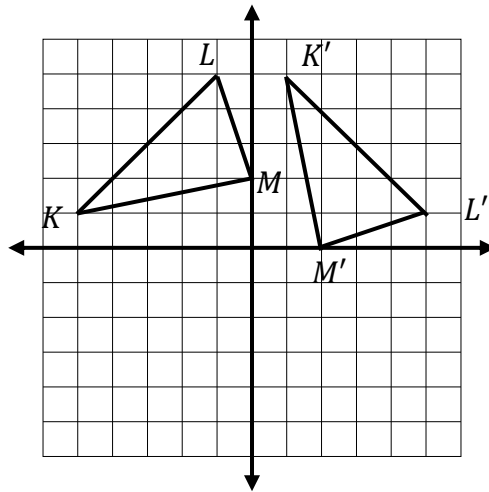


8. Rotate $\triangle JKL$ 270° clockwise about the origin. Label the \triangle .

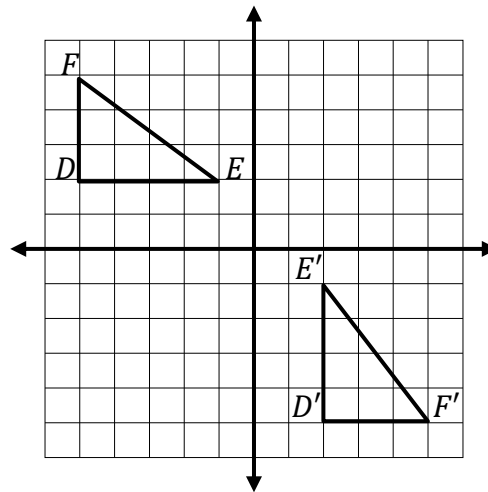


[9-12] Write a rule to describe the given transformation.

9.



10.



11. State a different rule to obtain the same image in #9.

12. State a different rule to obtain the same image in #12.