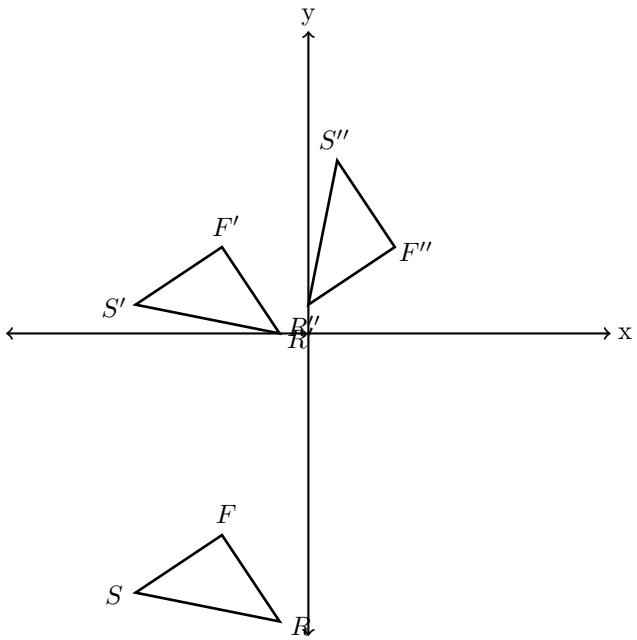
Name:_____CLASS WORK

3.11 Transformations Test Review - CW #:_____

1. In the graph below, $\triangle SFR$ follows a sequence of transformations to make $\triangle S''F''R''$.



What is the sequence of tranformations?

(1) Reflection then reflection

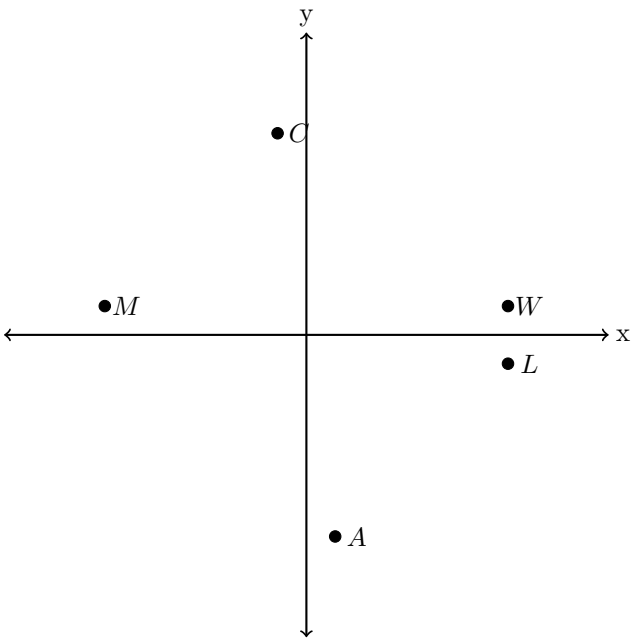
(2) Translation then reflection

(3) Translation then rotation

(4) Reflection then rotation

(5) I do not know. (Worth $\frac{1}{3}$ points)

2. In the graph below, there are several points plotted.



After point W is rotated 90° counterclockwise around the origin, which point is its image?

(1) L

(2) M

(3) C

(4) A

(5) I do not know. (Worth $\frac{1}{3}$ points)

3. Given $\triangle MEN$, after which of the following transformations, will $\triangle MEN$ *not* be congruent to $\triangle M'E'N'$?

(1) A reflection over the $x - axis$

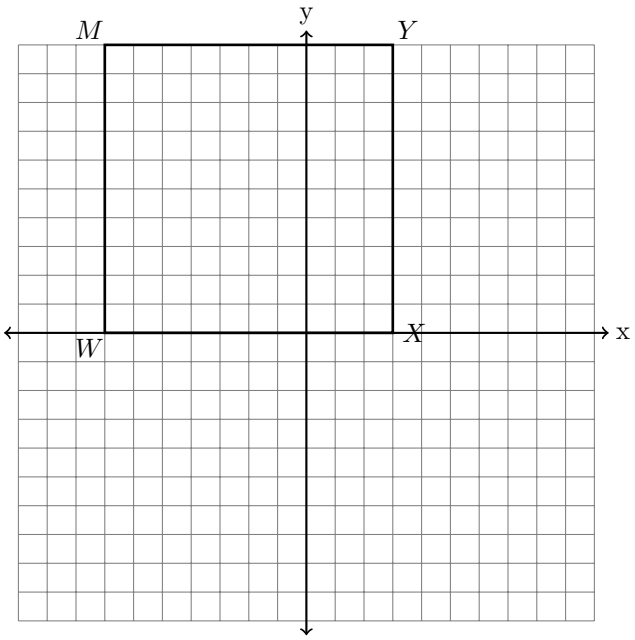
(2) A translation 5 right and 1 up

(3) A dilation with a scale factor of 2

(4) A rotation 180°counterclockwise around the point $(-7, -10)$

(5) I do not know. (Worth $\frac{1}{3}$ points)

4. In the diagram below square $WMYX$ is drawn.



Which of the following will *not* map the square onto itself?

(1) $x = 5$

(2) Rotation 90° around (-2,5)

(3) $y = x + 7$

(4) $y = 5$

(5) I do not know. (Worth $\frac{1}{3}$ points)

5. Which shape always has exactly 9 lines of reflection that will map it onto itself?

(1) square

(2) regular octagon

(3) regular hexagon

(4) regular nonagon

(5) I do not know. (Worth $\frac{1}{3}$ points)

6. What is the minimum number of degrees for a regular triangle to rotate onto itself?
(1) 40°

(2) 72°

(3) 120°

(4) 45°

(5) I do not know. (Worth $\frac{1}{3}$ points)

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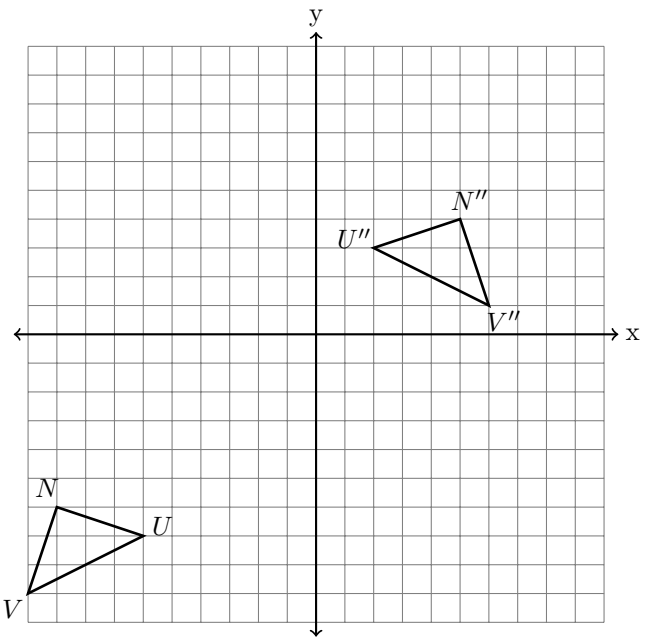
7. Given the graph below, identify the sequence of transformations used to map $\triangle VNU$ onto $\triangle V''N''U''$.



Explain why $\triangle VNU$ is congruent to $\triangle V''N''U''$.

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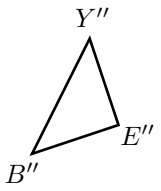
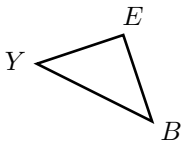
8. Below, $\triangle YEB$ follows a sequence of transformations to make $\triangle Y''E''B''$.





Describe a sequence of transformations that will map $\triangle YEB$ onto $\triangle Y''E''B''$.

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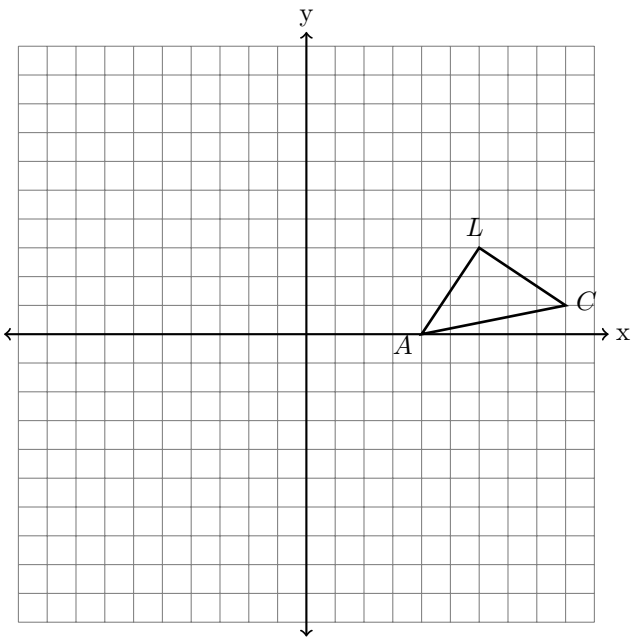
9. Given $\triangle ALC$ on the set of axes below, graph $\triangle A'L'C'$ after a rotation of 90° counterclockwise around the origin.



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10. In the graph below of $\triangle LOB$, peform a translation down 10 followed by a reflection over the line $x = 0$ to make $\triangle L''O''B''$.