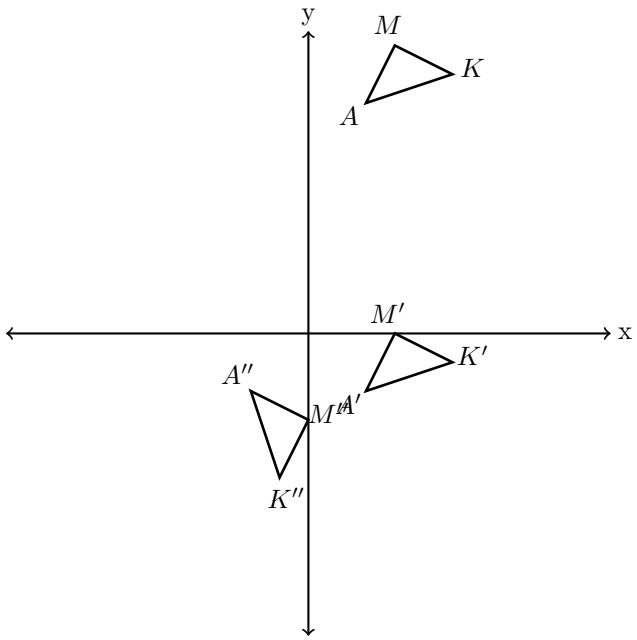
Name:_____CLASS WORK

3.12 Transformations Test Review - CW #:_____

1. In the graph below, $\triangle AMK$ follows a sequence of transformations to make $\triangle A''M''K''$.



What is the sequence of tranformations?

(1) Reflection then reflection

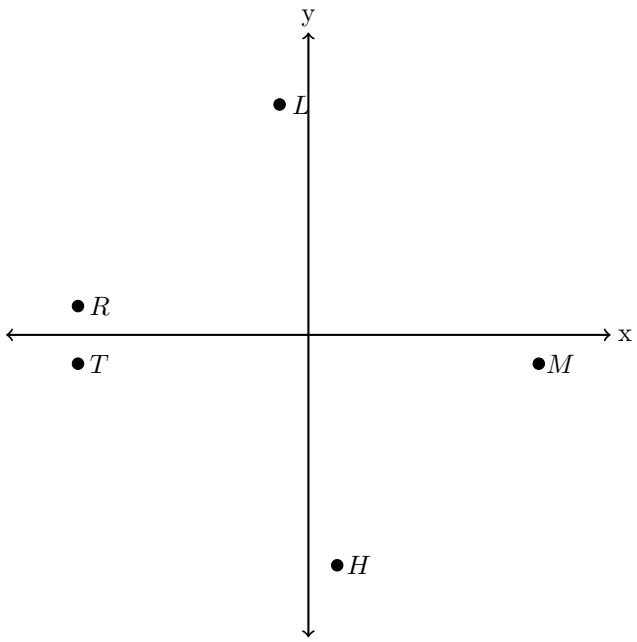
(2) Reflection then rotation

(3) Translation then reflection

(4) Translation then rotation

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

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



After point T is rotated 90° clockwise around the origin, which point is its image?

(1) H

(2) L

(3) M

(4) R

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

3. Given $\triangle ZGH$, after which of the following transformations, will $\triangle ZGH$ *not* be congruent to $\triangle Z'G'H'$?

(1) A reflection over the line $x = 0$

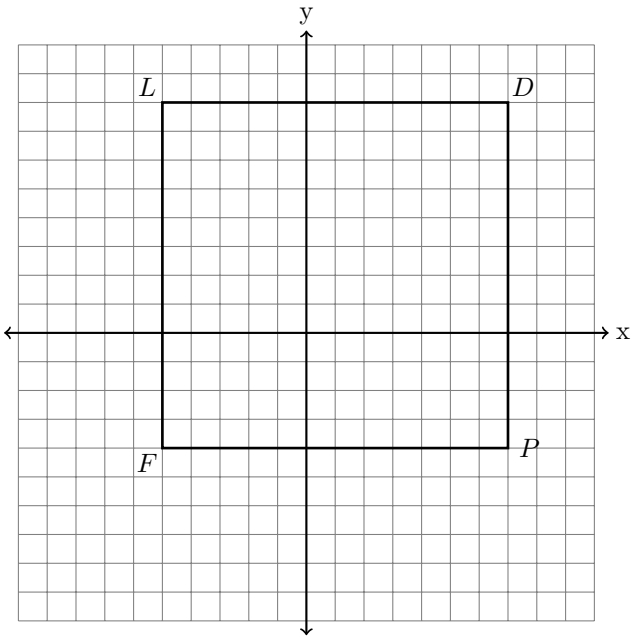
(2) A dilation with a scale factor of 3

(3) A translation 4 right and 8 up

(4) A rotation 180°clockwise around the point $(9, 5)$

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

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



Which of the following will *not* map the square onto itself?
(1) Rotation 90° around (1,2)
(2) $x = 2$
(3) $y = x + 1$
(4) $y = 2$
(5) I do not know. (Worth $\frac{1}{3}$ points)

5. Which shape always has exactly 10 lines of reflection that will map it onto itself?
(1) regular pentagon
(2) regular hexagon
(3) regular decagon
(4) equilateral triangle
(5) I do not know. (Worth $\frac{1}{3}$ points)

6. What is the minimum number of degrees for a regular pentagon to rotate onto itself?
(1) 72°

(2) 45°

(3) 36°

(4) 90°

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

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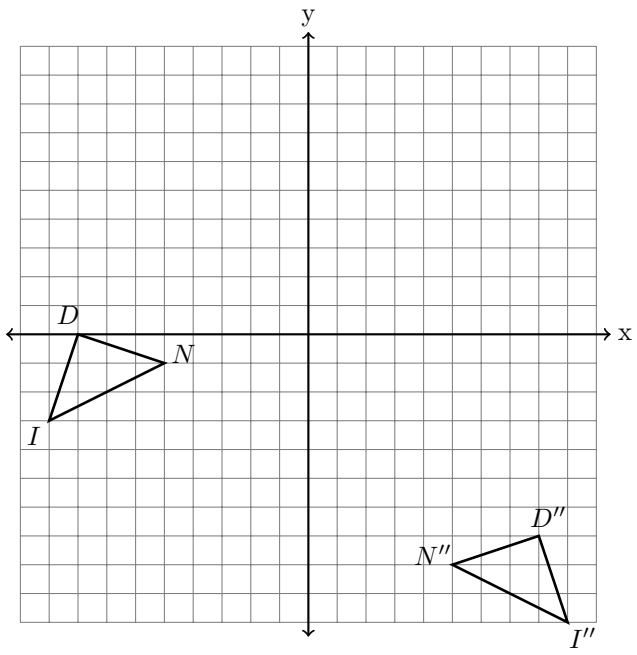
7. Given the graph below, identify the sequence of transformations used to map $\triangle IDN$ onto $\triangle I''D''N''$.



Explain why $\triangle IDN$ is congruent to $\triangle I''D''N''$.

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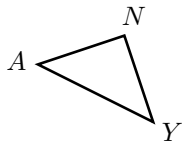
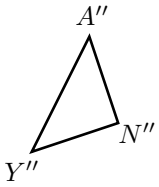
8. Below, $\triangle ANY$ follows a sequence of transformations to make $\triangle A''N''Y''$.





Describe a sequence of transformations that will map $\triangle ANY$ onto $\triangle A''N''Y''$.

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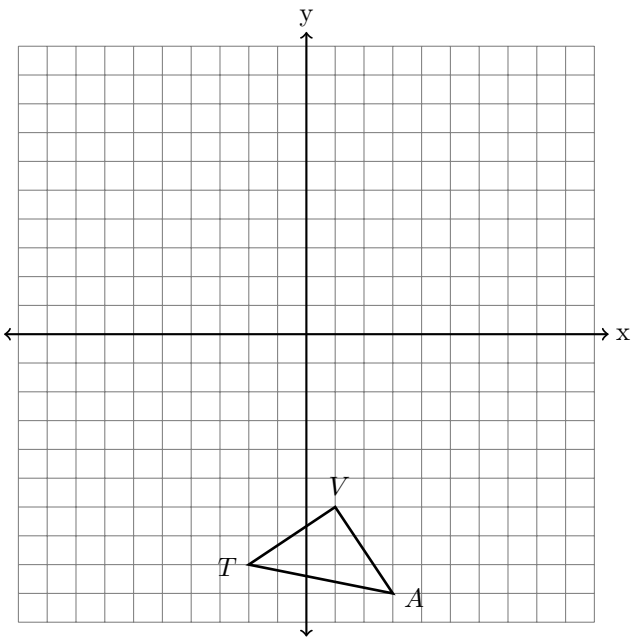
9. Given $\triangle TVA$ on the set of axes below, graph $\triangle T'V'A'$ after a rotation of 90° clockwise around the origin.



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10. In the graph below of $\triangle KLY$, peform a translation right 10 followed by a reflection over the line $y = 0$ to make $\triangle K''L''Y''$.