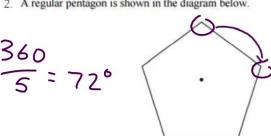
Date:

Some Final Geometry Regents Review

- 1. What are the coordinates of the point on the directed line segment from K(-5,-4) to

2. A regular pentagon is shown in the diagram below.



If the pentagon is rotated clockwise around its center, the minimum number of degrees it must be rotated to carry the pentagon onto itself is

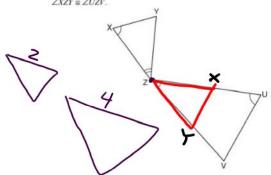
- 108° (4) 360°
- 3. The equation of line h is 2x + y = 1. Line m is the image of line h after a dilation of scale factor 4 with respect to the origin. What is the equation of the line m?

(1)
$$y = -2x + 1$$

(2) $y = -2x + 4$
(3) $y = 2x + 4$
(4) $y = 2x + 1$
(5) $y = 2x + 1$
(6) $y = -2x + 4$
(7) $y = 2x + 1$

- 4. A quadrilateral has vertices with coordinates (-3,1), (0,3), (5,2), and (-1,-2). Which type of quadrilateral is this?
 - rhombus
 - rectangle
 - square
 - (4) trapezoid

5. In the diagram below, triangles XYZ and UVZ are drawn such that $\angle X \equiv \angle U$ and $\angle XZY \equiv \angle UZV$.



Describe a sequence of similarity transformations that shows $\triangle XYZ$ is similar to ΔUVZ .

about 2 onto DUVZ

and then it is dilated

by a scale factor of ZU

These D's are similar ZX

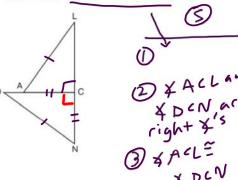
These D's are similar ZX

by AA because when we

by AA because when we

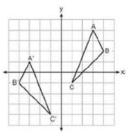
measure is preserved.

6. In the diagram of $\triangle LAC$ and $\triangle DNC$ below, $\overline{LA} \cong \overline{DN}$, $\overline{CA} \cong \overline{CN}$, and $\overline{DAC} \perp \overline{LCN}$

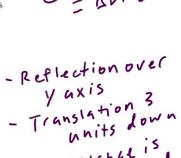


a) Prove that $\triangle LAC \cong \triangle DNC$.

 As graphed on the set of axes below, △A'B'C' is the image of △ABC after a sequence of transformations.



Is $\triangle A'B'C'$ congruent to $\triangle ABC$? Use the properties of rigid motion to explain your answer.



- Distance is preserved