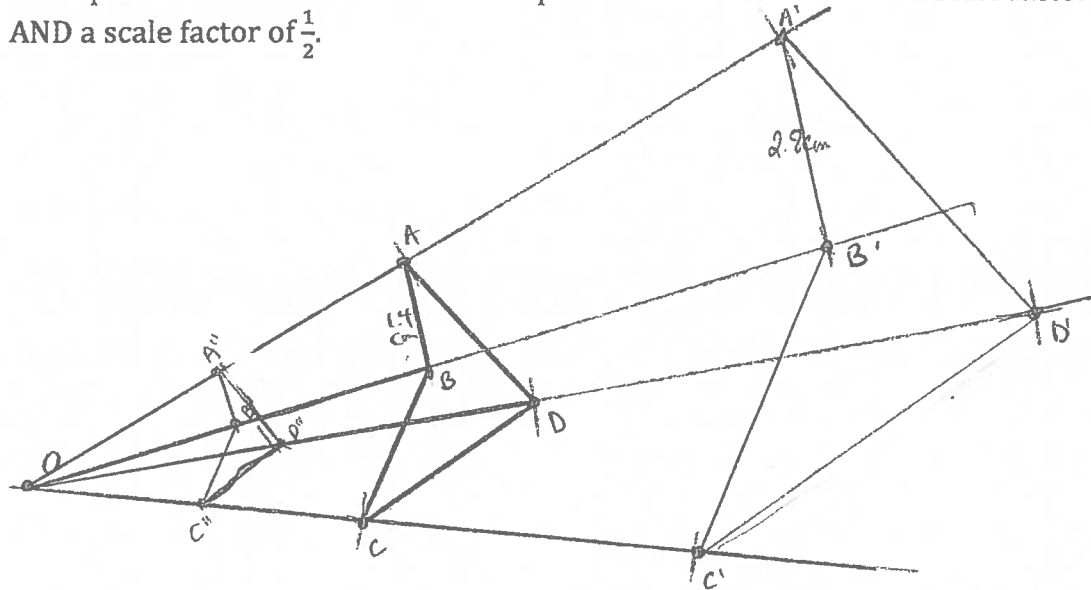


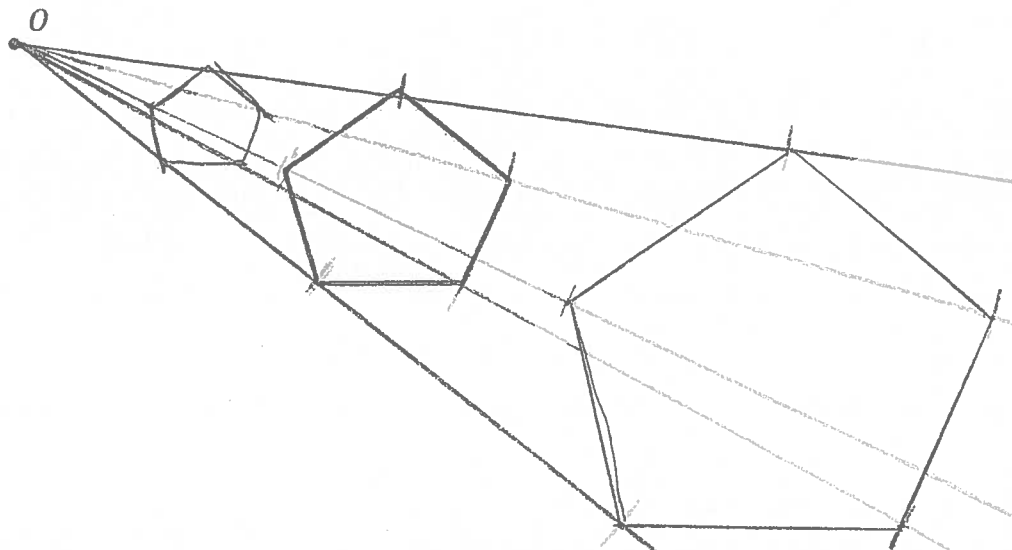
LEARNING OBJECTIVE: We will review the properties of dilations and practice performing dilations (G8M3L6)

Use a compass and a ruler to dilate the shape below with center O for a scale factor of 2 AND a scale factor of $\frac{1}{2}$.

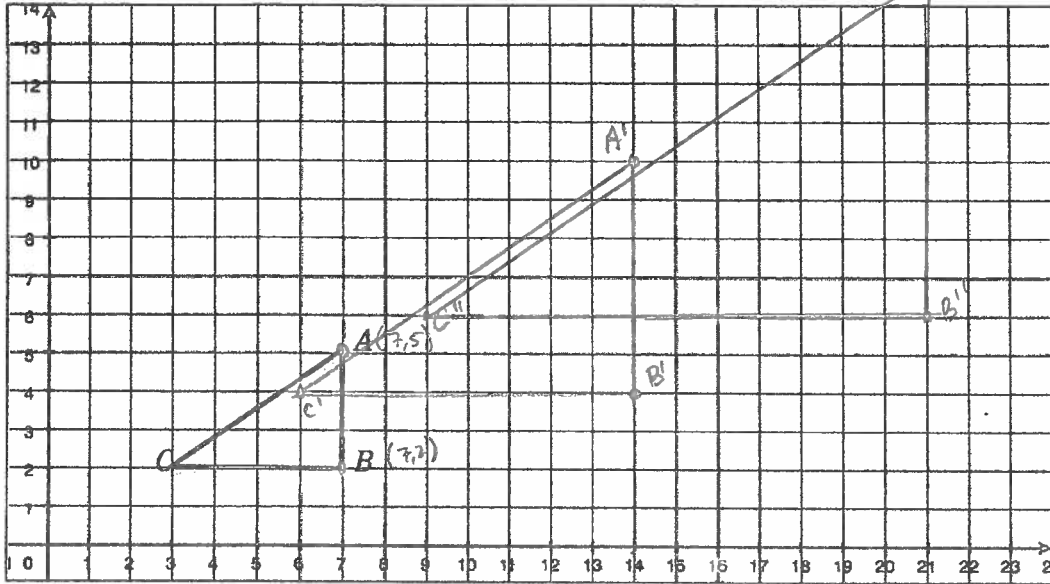


$$2|AB| = |A'B'| \quad \overline{AB} \parallel \overline{A'B'} \quad A''B'' = 0.7 \text{ cm}$$

Use a compass and a ruler to dilate the shape below with center O for a scale factor of 2 AND a scale factor of $\frac{1}{2}$.

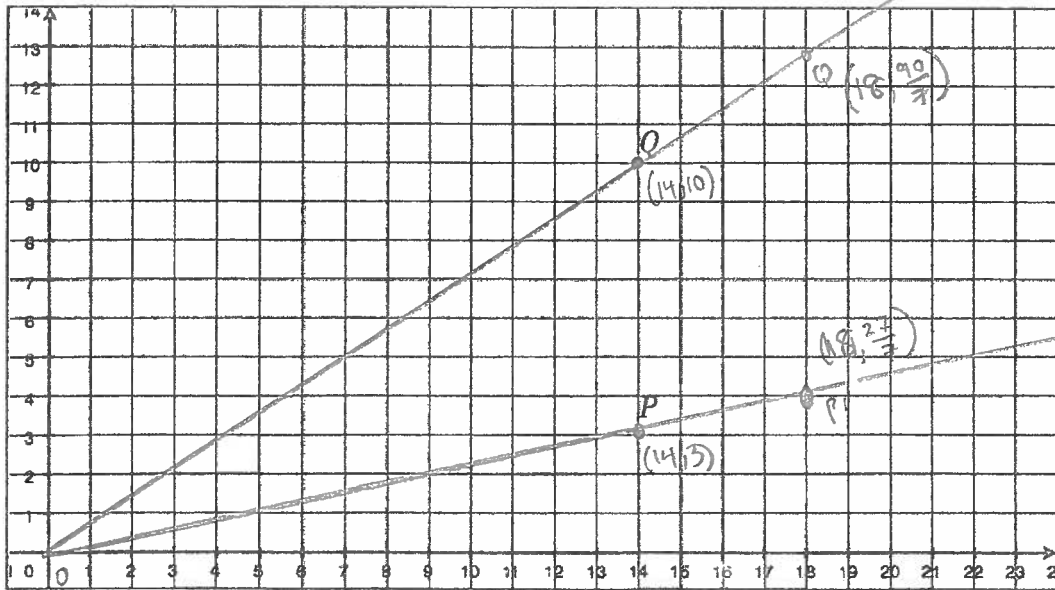


Dilate the right triangle with a center at the origin for a scale factor of 2 and 3.
Determine the lengths of each side of the every triangle.



$\overline{AB} = 3$	$\overline{BC} = 4$	$\overline{CA} = 5$
$\overline{A'B'} = 6$	$\overline{B'C'} = 8$	$\overline{C'A'} = 10$
$\overline{A''B''} = 9$	$\overline{B''C''} = 12$	$\overline{C''A''} = 15$

Dilate points from center at (0,0) for a scale factor of $\frac{9}{7}$. Find coordinates of P' and Q'



$14 \cdot \frac{9}{7} = 18$

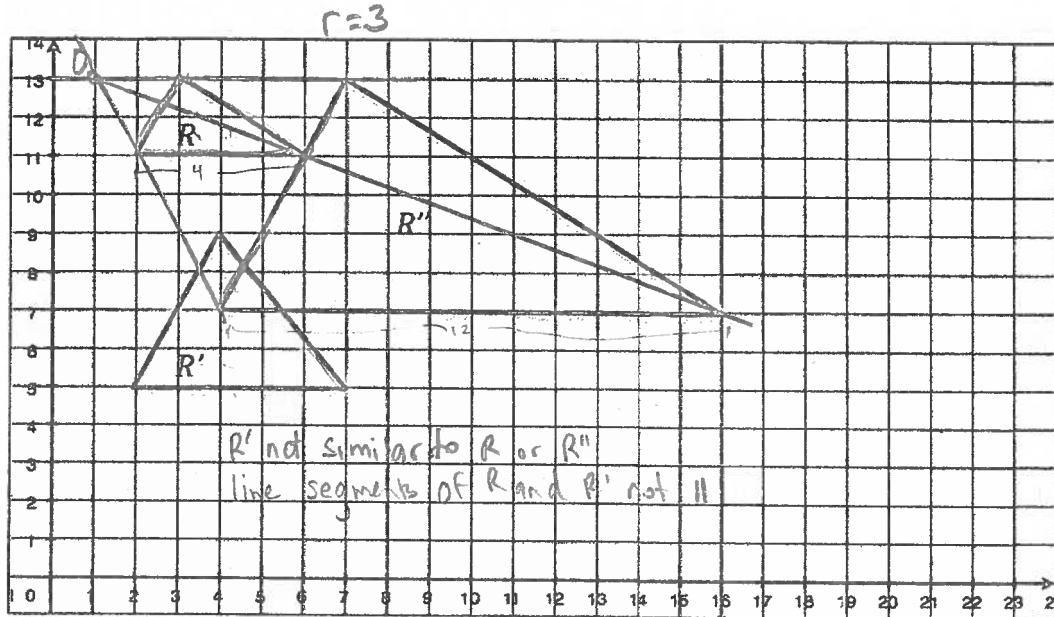
NAME: _____

Math _____, Period 5/6

Mr. Rogove

Date: _____

Describe the possible dilation relationships between shapes R , R' , and R'' . If a dilation, state the point of dilation and the scale factor.



Dilate from center at point O for a scale factor of 2

