□ DO	NOW – Geometry Regents Lomac 2014-2015 Date		due Scale drawings Parallel 5.3 Method		
` '	escribe how to make a scale drawing using the ratio hod (from lesson 5.2 #3)	Name LO:			
<u>(1)</u>	tex of the original figure is dilated about the center θ is joined to each other in the same way as in the genlarged $(r>1)$ or reduced $(0< r<1)$.				
	The parallel method Karl dilated \triangle ABC from center O, resulting in \triangle A'B'C'. He says that he completed the drawing using parallel lines. How could he have done this? Explain				

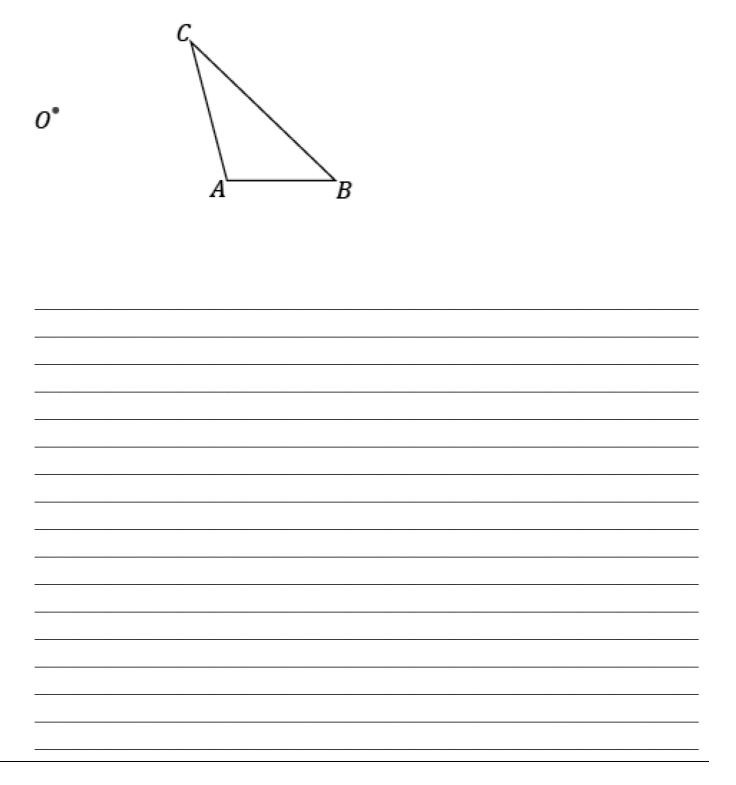
(3) compass, straightedg e	Drawing parallel using a ruler and set square (or any square) [(a) Saun used a ruler (the rectangle) and a setsquare (the triangle) to draw a line through C parallel to AB.			
	.c .c			
	What ensures that the line Saun drew is parallel to AB?			
	(b) Arielle was drawing parallelogram ABCD when her work was interrupted. Use a ruler and setsquare to finish drawing the parallelogram that she started			

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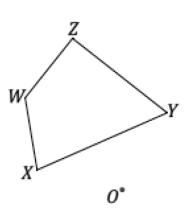
Describe the steps needed to use the parallel method to make a scale drawing of the figure below with center O and scale factor r = 2. Perform one step at a time, describing each step as you complete it.



(5)	Scale drawings	using the	parallel	method
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With a ruler and setsquare, use the parallel method to create a scale drawing of WXYZ by the parallel method. W' has already been located for you.

 $W_{\underline{\cdot}}'$

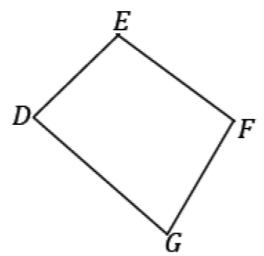


Determine the scale factor of the scale drawing.

Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(6) Scale drawings using the parallel method

With a ruler and setsquare, use the parallel method to create a scale drawing of DEFG with center O and scale factor $r = \frac{1}{2}$.



o°

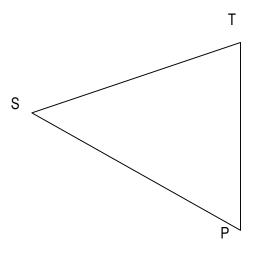
Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(7) compass, straightedg

Exit Ticket

Trace point O and triangle STP onto your paper and use a ruler and straightedge to make a scale drawing of triangle STP with center O and scale factor $r = \frac{1}{2}$ and label it S'T'P'. Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

(1)

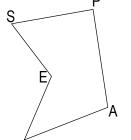


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(8) compass, straightedg

Homework: FINISH CLASS WORK AND . . .

 \square (1) Use the parallel method to create a scale drawing of SPACE with center O and scale factor r = 3 and label the drawing S'P'A'C'E'



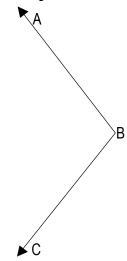
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Verify that the resulting figure is in fact a scale drawing by showing that corresponding side lengths are in constant proportion and that corresponding angles are equal in measurement. (Describe or show on the diagram.)

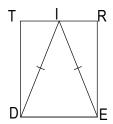
___ (8)

Homework

(2) Construct a copy of angle ABC and label it angle DEF. Construct the angle bisector of angle DEF.



 \square (3) Robert says that \angle IDE and \angle EID are the base angles of an isosceles triangle. What is wrong with his statement?



(4) Write a proof.

