

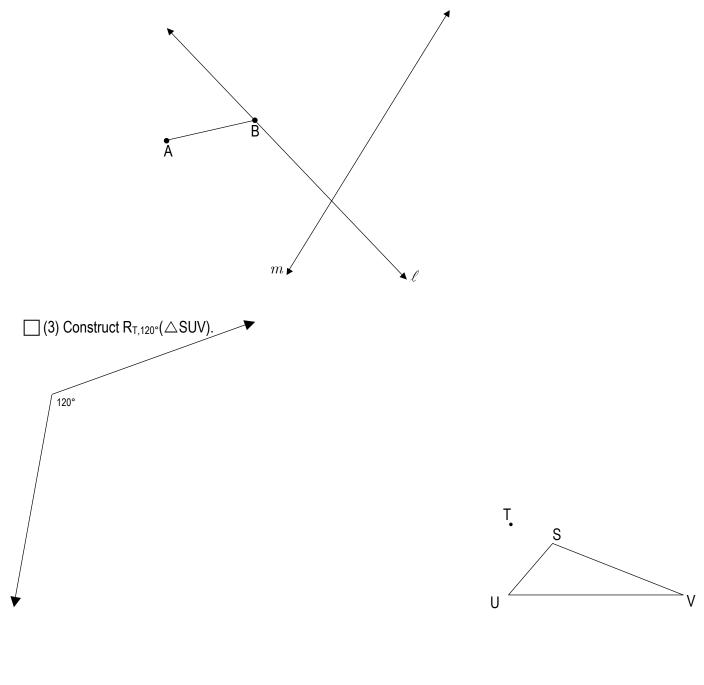
		2.7R
compass highlighte r	Connecting Reflections and Rotations (highlighters recommended, 1 color for each point you reflect) (1) ☐ Triangle ABC has been reflected across line ℓ resulting in triangle A'B'C'. (a) ☐ Reflect triangle A'B'C' across line m and label it A''B''C''. (b) ☐ Write a sentence describing a transformation that would map triangle ABC directly to triangle A''B''C''. B' B'	<u>2.7R</u>
(5) compass	Symmetry using the connections of reflection and rotation (a) Carefully draw all lines of symmetry for square ABCD and use them to A Figure 1 Figure 1 Figu	
	Icole the center of rotational symmetry. Icole the symmetries of square ABCD. (Include the number and names of the lines of symmetry – add letters to the diagram where needed – and the number of rotations, including the identity.) Icole the the image of A is B. What point(s) could be the image of B2 is each point a reflection or reflection.	C
	 (c) I know that the image of A is B. What point(s) could be the image of B? Is each point a reflection or role (d) How many ways can A map to A? A map to B? A map to C? A map to D? A maps to A when A maps to B when A maps to C when A maps to D when 	

		2.7R
Cont compass	 Symmetry using the connections of reflection and rotation Square ABCDE (a) Draw all lines of symmetry and use them to locate the center of rotational symmetry. (b) Describe the symmetries of pentagon ABCDE. (Include the number and names of the lines of symmetry – add letters to the diagram where needed – and the number of rotations, including the identity.) 	$A \xrightarrow{B} C$
	(c) I know that the image of A is B. What point(s) could be the image of B?	
	(d) How many ways can A map to A? to B? to C? A maps to A when A maps to B when A maps to C when A maps to D when A maps to E when	
(6)	Exit Ticket ON THE LAST PAGE	
(8)	Homework (1) Write the number of rotational symmetries for each figure (remember the R R R V	identity).

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(8) Homework

(2) Construct $r_{\ell}(\overline{AB})$ and then construct $r_m(\overline{A'B'})$. What single transformation could map $\overline{A'B'}$ to $\overline{A''B''}$?



(4) How does your construction in problem number 3 relate to copying an angle?

 EXIT TICKET
 Name______
 Date ______
 Per_____
 2.7R

 (1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:
 2.7R

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(a) Construct equilateral triangle ABC. Draw all lines of reflection symmetry. How many lines of reflection symmetry are there? How many rotational symmetries are there?

(b) How do you determine reflection symmetry? Rotation symmetry?

REMINDER: You may want to add to the Do Now in problem 2.

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DO NOW	Name	Dat	te	Per	2.7R

(1) Write down anything that comes to mind when you hear the word *symmetry*.

(2) What about the cartoon below is supposed to make people smile? You may want to add more to this after today's lesson.

