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Geometry Local Lomac 2015-2016 Da		Date <u>2/23</u>	due <u>2/24</u>	Construct	ing Centers of Rotation	9.5L
Name LO:	I can use function notation to des		Per_ ns in the plane	 and can construct c	enters of	\$
(1)	Rotations notes Complete the rotation notes on page N10					
	R			()	
(2) Transp- arency Dry erase marker Eraser	Rotations Demonstrate rotations function notation. Use function notation tracing the original figure and rotations.	otation to desc	cribe each rotat	ion. Verify that each	n diagram illustrates a rota	
	P' preimage O	prei	mage 85°	A' C'	x pr	Z eimage
	Function:	Function	n:	Fund	ction:	
	I know that all three of these are	rotation functi	ons because (´) a rotation function	is	

and (2) when I traced and rotated each figure, _____

(3) compass	Rotations Find the center of rotation (a) Draw a segment connecting points A and A' (b) Using a compass and straightedge, find the perpendicular bisector of this segment. (c) Draw a segment connecting points B and B'. (d) Find the perpendicular bisector of this	. В'	A B		
	segment. (e) Label the point where the perpendicular bisectors intersect point C. (f) Point C is the (Use tracing paper to check the rotation)	A'			
	(m) Write the rotation function:		(name the angle of rotation)		
(4) compass highlighte rs	Rotations Find the center of rotation For each preimage/image pair, construct the center of rotation and label it C.				
	Rotation notation R	Rotation notation:	C' D'		

<u></u> (5)	BIG IDEA: To construct a center of rotation, I need to construct at least two of segments that connect a				
	to its	and mark the location where the			
		 intersect This point of			
	intersection is the				
<u>(6)</u>	Exit Ticket ON THE LAST PAGE				
	Homework (1) Describe each reflection with function not and an arrangement of the control of th	otation. (b) S W S' A			
	(2) Does the diagram at right show a triangle across the line between them? Described across the line between them.	pe how you know:			

(b) \overrightarrow{VW} bisects \overline{XY}

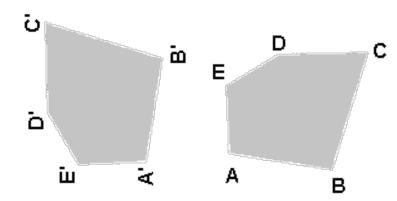
(c) ∠LMN ≅ ∠OPQ

(a) $\overline{QR} \perp \overleftrightarrow{ST}$

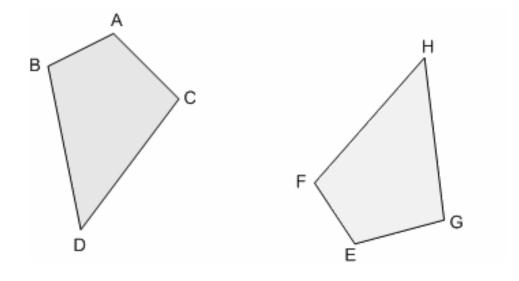
(7) cont, compass highlighters

Homework

(a)



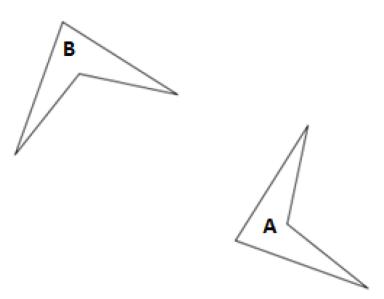
(b) First, figure out which vertices are corresponding (for example, letter A maps to letter ____).



Exit Ticket Name______ Date _____ Per_ ____ 9.5L

(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:

Find the center of rotation and name the angle of rotation for the transformation below that maps figure B onto figure A. (You may want to label the vertices (corners) of the figure to help you construct the center of rotation.



DO NOW	Name	Date Per	9.5L
(1) ((a) Draw \overline{AB} with midpoint M.	(b) Draw ∠TVS with vertex V.	

(2) Is vertex V a midpoint? How do you know? Is midpoint M also a vertex? How do you know?

(3) What word is written below? When you turn your paper upside-down, what does the word say?

How does this relate to today's Learning Objective (LO)?

