Goomo	try Doganta Lamaa 2015 2016	Data 10/7 dua 10/9	Constructing Contara	of Potation 2.5D	
Geome	try Regents Lomac 2015-2016	Date <u>10/7</u> due <u>10/8</u>	Constructing Centers of	of Rotation 2.5R	
Name LO:	I can use function notation to des		_ and can construct centers of		
_\ \text{N10} (1)	Rotations notes Complete the re	otation notes on page N10			
	R	,)	
Rotations Demonstrate rotations of the plane with transparencies and dry erase marker Eraser Rotations Demonstrate rotations of the plane with transparencies and dry erase marker function notation. Use function notation to describe each rotation. Verify that each distriction tracing the original figure and rotating according to the function notation that you have			on. Verify that each diagram illus		
	P' Preimage O	preimage 85°	A' C'	Z preimage	
	Function:	Function:	Function:		
	I know that all three of these are rotation functions because (1) 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'.		A B	
	(d) Find the perpendicular bisector of this segment.	B'		
	(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)	
Compass highlighte Rotations Find the center of rotation For each preimage/image pair, construct the center of rotation and label it C.				
rs	(a) <u></u>	(b)		
	E B B B B B B B B B B B B B B B B B B B	B C	C' D' D' A' B' E'	
	Rotation notation R	Rotation notation:		

<u>(5)</u>	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			
	two	intersect This point of			
	intersection is the				
<u>(6)</u>	Exit Ticket ON THE LAST PAGE				
☐ (7)	Homework (1) Describe each reflection with function notation. (a) Z *Z' m	(b) S W A A			
	(2) Does the diagram at right show a triangle and is across the line between them? Describe how				

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

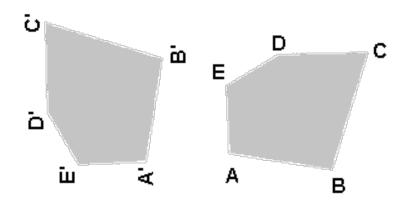
(c) ∠LMN ≅ ∠OPQ

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

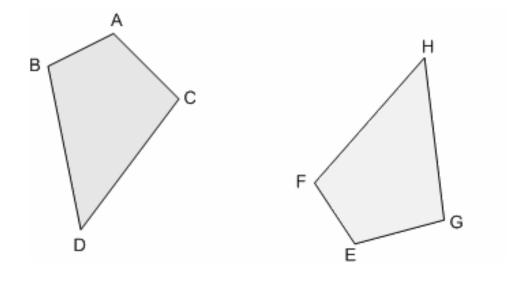
(7) cont, compass highlighters

Homework

(a)

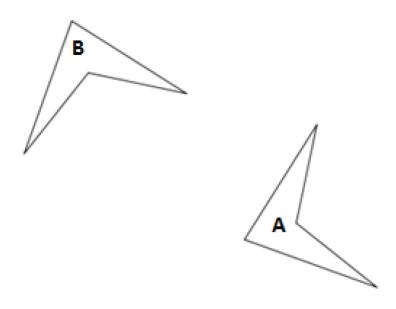


(b) First, figure out which vertices are corresponding (for example, letter A maps to letter ____).



(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 estimate the angle of rotation for the transformation below that maps figure B onto figure A.



(1)

DO NOW	Name	Date Per	2.5R
(1) (a	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)?

