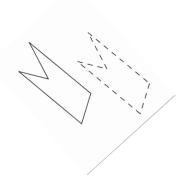
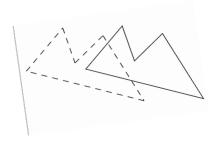
Geometry Regents Lomac 2015-2016		Date <u>10/13</u> due <u>10/14</u>		Constructing Tra	Constructing Translations 2.8R	
Name LO:	I can translate figures by constructions.	ction and write	Pere and interpret fu	nction notation for	A di B	
DO NOW On the back of this page		et				
□ (1) N10	Translation notes					
(2) Transparency Dry erase marker Eraser	Translations preservation of distance and direction (a) Use dry erase markers and transparencies to visualize the transformation function of the plane.					
	T _{₽Q} (Z)			$T_{\overrightarrow{\mathit{HR}}}(\overline{\mathit{TD}})$		
compass	P					
	z*			Ď	R*	
	(b) Use the fact that that trans	lations preser	ve distance to co	onstruct the translation of each fig	gure above.	
(3) compass	Translations practice (highlighter ☐ (a) Construct the translation of highlighters to make your work cleans.	f triangle PLA	along vector NE	and write the translation in func	ion notation. Use	
			Ē	N L		
					A	
	Function Notation: What do you notice about segments LL', PP', and AA'?					

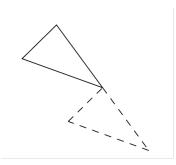
cont compass	☐ (b) Use your compass and straightedge to translate the triangle along vector AB. Explain each step as you do		
highlighte r	the construction.		
r	P_1 P_2 P_3		
(5) compass	Translate a line (highlighters recommended, 1 color for each point you translate)		
	\square (a) Translate \overrightarrow{MC} along vector \overrightarrow{AB} .		
	A C		
	M		
	What is the relationship between \overrightarrow{MC} and $\overrightarrow{M'C'}$?		

<u>(6)</u>	Exit Ticket ON THE LAST PAGE				
□ (8)	Homework (1) The translation vector CC' is shown. Draw the translation vectors for B, A, and D.				
	What do you notice about all of the vectors you have drawn?	C D B'			
		A A'			
	(2) Draw 1 translation vector for each projection image pair. The	a proimages are solid while the im-			

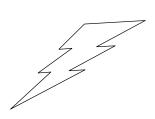
 \square (2) Draw 1 translation vector for each preimage-image pair. The preimages are solid while the images are dashed.

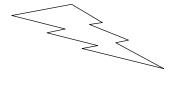






 $\hfill \square$ (3) Construct the line of reflection for the images below. (lesson 2.3 #4)

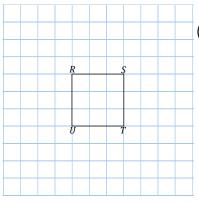




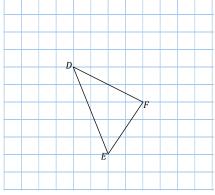
(8) Homework

(4) Use the grid to translate each figure as directed. Draw the translation, label the images with prime notation and draw the vector that defines the translation.

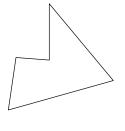
(a) Translate 3 units left and 2 units down.

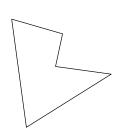


(b) Translate 2 units. right and 1 unit up



(5) Construct the center of rotation.





(6) Construct the line of reflection.





EXII IICKEI	Name	_ Date Pe	er 2.8R
(1) The LO (Learn	ning Outcomes) are written below your name or	the front of this packet.	Demonstrate your achievement of
these outcomes b	by doing the following:	·	·
	ntedge to draw point O and vector AB on your p	· -	•0 B
diagram at right.	From the point O and vector AB that you drew,	Construct $I \overline{AB}(O)$.	Â
(b) Describe v	why the construction you did in part (a) guarante	es the described transla	ation.

- (1) Copy each transformation notation and describe what each means.

 - (a) $r_{\overrightarrow{HA}}$ (\triangle REM) (b) $R_{B,133^{\circ}}$ (\triangle RAT)
 - (a)

(b)

(2) Logic is a MAJOR concept in Geometry. What about the logic cartoon below is supposed to make people smile?

