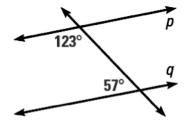
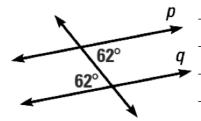
Geometry Regents Lomac 2015-2016 Date 11/4 due 11/5 Angles Proving Parallel Lines 3.8								
Name			·					
LO:	I can can use the convers	se of theorems to prove lines a	are parallel.					
	On the back of th	is packet						
] (1) 11, N12	Need to Know: Lines are parallel IF and ONLY IF:							
111, N12	Corresponding Angles	Alternate Exterior Angles	Alternate Interior Angles	Same Side Interior Angles				
	1	1	1	1				
N11, N12	(a) Is line ρ parallel to	P I can/cannot prove that						
	\square (b) Is line p parallel to	•						
		P						
		~						
	← '↓	→						
	\square (c) Is line p parallel to	line q?						
	λ	<i>p</i> —						
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	q						
	←	→						

(2) Angles: Proving that lines are parallel

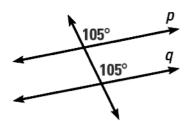
 \square (d) Is line *p* parallel to line *q*?



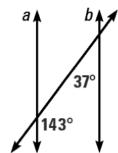
 \square (e) Is line p parallel to line q?



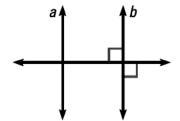
 \square (f) Is line *p* parallel to line *q*?



 \square (g) Is line a parallel to line b?

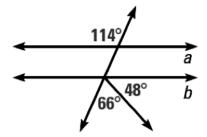


 \square (h) Is line a parallel to line b?

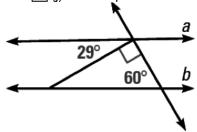


(2) Angles: Proving that lines are parallel

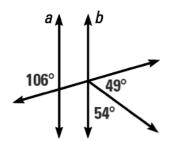
 \square (i) Is line *a* parallel to line *b*?



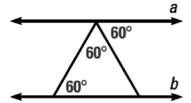
 \square (j) Is line *a* parallel to line *b*?



 \square (k) Is line a parallel to line b?

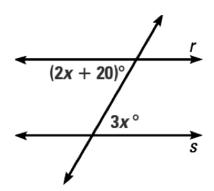


 \square (I) Is line *a* parallel to line *b*?



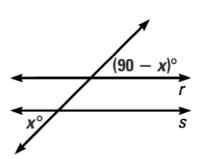
\square (3) Angles: Values of x that prove that lines are parallel

(a) What value of x will result in parallel lines?



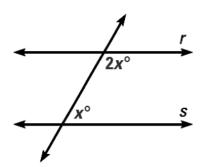
I know that _____ will be parallel to _____ when x is _____ because _____

(b) What value of x will result in parallel lines?

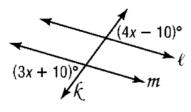


I know that _____ will be parallel to _____ when x is _____ because _____

(c) What value of x will result in parallel lines?



 \square (d) What value of x will result in parallel lines?



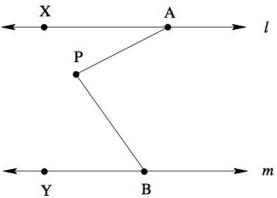
Liknow that	Angles: Proving that lines are parallel ☐ (a) Prove that lines are parallel or explain why it is not possible.						
(b) Prove that lines are parallel or explain why it is not possible Know that							
(b) Prove that lines are parallel or explain why it is not possible Solution Comparison C							
(b) Prove that lines are parallel or explain why it is not possible know that because							
(b) Prove that lines are parallel or explain why it is not possible know that because							
j know thatbecause							
j = k							
j = k							
$j \downarrow k \downarrow n$							
JV K¶ Vn ¶m							
(c) Prove that lines are parallel or explain why it is not possible							
(c) Prove that lines are parallel or explain why it is not possible							
F 1 1							
A B							
77° /114°							
$E_{p} = \begin{bmatrix} 38^{\circ} \\ D \end{bmatrix}$							
(d) Prove that lines are parallel or explain why it is not possible							
ℓ_2 C 45°							
A_2 C A_5° B							
<u></u>							

(5) Exit Ticket

ON THE LAST PAGE

(6) Homework

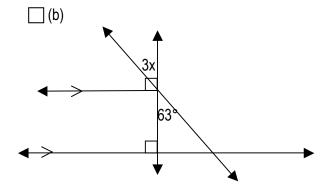
 \square (1) PROVE: \angle XAP + \angle YBP = \angle APB



I know that	because	Y	В	

 \square (2) Find the measure of x in each diagram. State a reason for each step that you take.



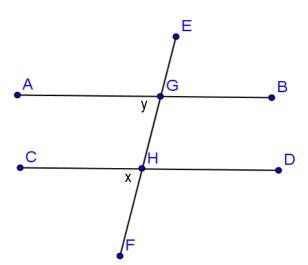


(c) Construct a 15° angle

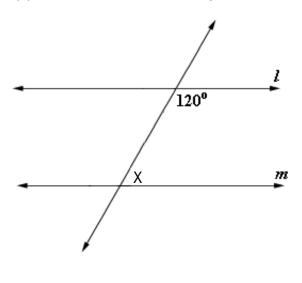
Exit Ticket Name_____ Date _____ Per____ 3.8R

(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:

(a) Given that x = y, prove that AB || EF.



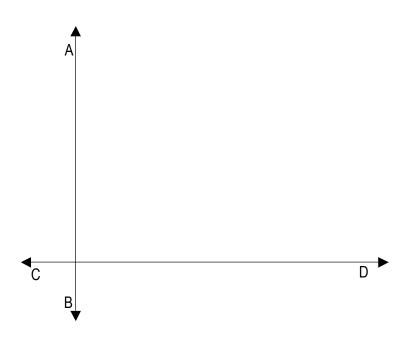
(b) For what value of x will I be parallel to m?



DO NOW Name_____ Date _____ Per____

3.8R

(1) In the diagram, $\overrightarrow{AB} \perp \overrightarrow{CD}$. Construct line EF parallel to \overrightarrow{CD} . (There are more ways than one to do this.)



- (2) Label the intersection of \overrightarrow{AB} and \overrightarrow{CD} point G. Label the intersection of \overrightarrow{EF} and \overrightarrow{CD} with an H.
- (3) Consider a square GHIJ that you might finish constructing. Spend no more than 1 minute trying to complete the construction of square GHIJ.
- (4) Describe why the cartoon below is supposed to make people smile. REALLY think about it.

