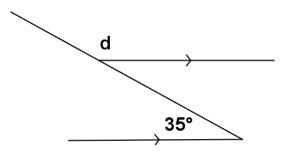
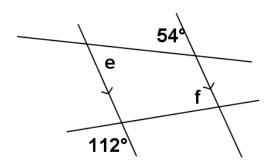
Geomet	try Regents Lomac 2015-2016	<b>Date</b> <u>10/28</u>	due <u>10/29</u>	Using Angle F	Relationships and auxiliary lines	3.3R
Name LO:	I can solve problems involving an	ales formed by	Per v transversals		reasoning	
ـ٥.	. Jan John Problems Involving an		, adiloversal	- and oxplain my		
	On the back of this packe	et				
(1) transparen cies, dry erase markers, erasers N11		alternate exter corresponding = 125°. Comp	rior Dlete each sta	atement below:	a h g f	<i>\</i>
	(a)	<u>′f is</u>			to ∠a.	
	(b)	∠b is			to ∠a and	
					to ∠f.	
	(c)	∠c is			to ∠a and	
					to ∠f and	
	(d) ☐ m∠g = 55° because ∠	g is			with ∠a and.	
					to ∠c.	
	(e) ☐ m∠h = 55° because ∠	h is			to ∠g.	
(2) transparen cies, dry erase markers, erasers N11		le and name a equation whei ldy known. Us	a relationship n needed. RE se the space	you used to find the EMEMBER: Reasonate the bottom to so		ships
	_	53°	c	<b>b</b>		
	m∠a = because it is			with	_and	
	m∠b = because it is			with	_and	
	m∠c = because it is			with	and	

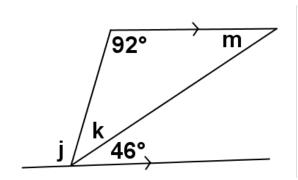
## (2) Angles: Finding measures of unknown angles by using relationships (use your notes)



 $m\angle x =$  \_\_\_\_\_ because it is \_\_\_\_\_ with \_\_\_\_ and \_\_\_\_  $m\angle d =$  \_\_\_\_\_ because it is \_\_\_\_\_ with \_\_\_\_



 $m\angle e =$  \_\_\_\_\_\_ because it is \_\_\_\_\_\_ with \_\_\_\_ and \_\_\_\_\_  $m\angle f =$  \_\_\_\_\_\_ because it is \_\_\_\_\_\_ with \_\_\_\_\_ with \_\_\_\_\_

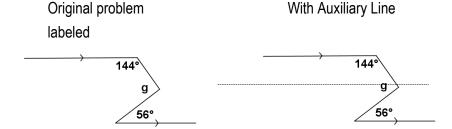


 $m \angle j =$  \_\_\_\_\_\_ because it is \_\_\_\_\_ with \_\_\_\_ and \_\_\_\_\_  $m \angle k =$  \_\_\_\_\_\_ because it is \_\_\_\_\_ with \_\_\_\_ and \_\_\_\_\_

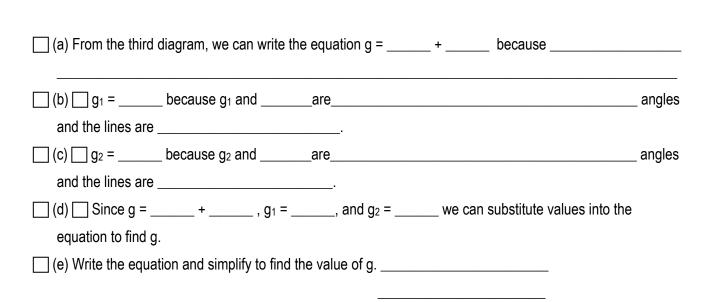
$\bigsqcup (3)$
transpare
cies, dry
erase
markers,
erasers

## Angles: Using Auxiliary lines to find unknown angle measures

 $\square$  Auxiliary lines are lines that you add to a diagram. To find the measure of angle g in the diagram below, it is possible to draw a line parallel to the two lines that are parallel and divide g into two smaller angles. We can call those smaller angles  $g_1$  and  $g_2$ .



With auxiliary line and g<sub>1</sub> and g<sub>2</sub>



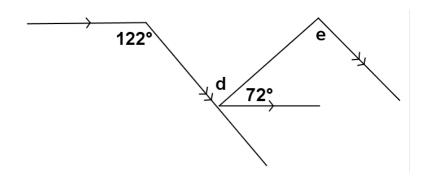
(4) Insparences, dry ase arkers, asers	Angles: Using relationships and auxiliary lines to solve for unknown angle measures  Add auxiliary lines to find the measures of the indicated angles. Use the steps from #3 to help you. Look back at the notes page N11 to find angle relationships that might help you. Suggestions you MAY want to use are listed for you. You MAY not need all of the lines provided. You must write a reason for every measure you find.  (a) SUGGESTIONS: corresponding, alternate interior, vertical
	→ 37°∕
	n
	44°
	because
	(b) SUGGESTIONS: corresponding, angles around a point, supplementary  117°  i 129°
	because

MAY not	1 to find angle relationships that might help you. Suggestions you MAY want to use are listed for you to need all of the lines provided. You must write a reason for every measure you find.  Suggestions you MAY want to use are listed for you to need all of the lines provided. You must write a reason for every measure you find.  Suggestions you MAY want to use are listed for you to need all of the lines provided. You must write a reason for every measure you find.
	$\stackrel{r}{\longrightarrow}$
	96°
	<b>130°</b>
	because
☐ (d)	
	94°
	because

<u></u> (5)	Exit Ticket
	ON THE LAST PAGE

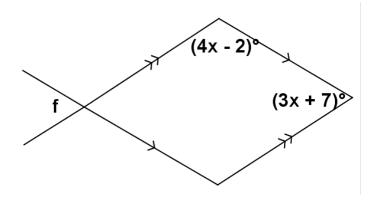
Homework

[] (6) pen or pencil (e)



 because

☐ (f)

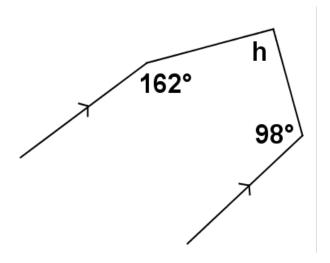


 _because

6) Homework		
☐ (e)	<del></del>	
	110°	
	80°	
	)310°	
	<u></u>	
	,	
	because	
□ <b>(</b> \$)		
(f)		
	b ' c	
	46°	
	94°	
	_because	

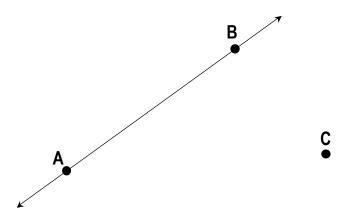
(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

Find the measure of angle h and provide a reason for every angle measure you find.



DO NOW Name\_\_\_\_\_\_ Date \_\_\_\_\_ Per\_\_\_\_ 3.3R

(1) Draw a diagram like the one at right and construct a line parallel to line AB by translating line AB along vector BC. (Refer to lesson 2.10 #2.)



(2) Describe why the cartoon below is supposed to make people smile. REALLY think about it. Use 3.2R

