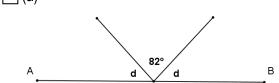
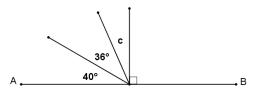
□ DO	NOW – Geometry Regents Lomac 2014-2015 Date	<u> </u>	due	Adjacent, vertical, 360° and 180°	3.1
, ,	e have discussed 5 types of angles. List the 5 types of es and make a sketch for each. (these are in your s)	Name SLO:	adjacent and ve	Per	
☐ (1)	Angles: What we know What do we know about angles already? (a) The number of degrees around a point is (b) If four angles with measures a,b,c, and d are around a point, then the sum of the angles (c) The number of degrees in a straight angle (c) The number of degrees in a straight angle (d) If a straight angle is formed by two adjacen Add a ray to the diagram below to form a lin sum of two angles is the angles are	e adjace (a + b + c is t angles ear pair.	ent angles c + d) is the angles are cather the sum of the two	vo angles is Wh	 en the
(2) transparen cies, dry erase markers, erasers	Angles: Using relationships Use what you have stated in problem number 1 to find solve it. ☐ (a) Determine the measure of angle g. m∠g = because		☐ (b) Determi	ine the measure of angle f.	

	145° a	c	b 40°	122° e	
m∠a =	because				
m∠ <i>b</i> =	because				
m∠c =	because				
m∠ <i>d</i> =	 because				
m∠e =	 because				
Focus on th	e diagram with angles	b, c, and d in pro	blem number 3.		
☐ (a) C	Complete the equations	s: b + 40 =	because		
		d + 40 =	because		
		b = d becau	se		
	Angles <i>b</i> and <i>d</i> are calleneasures.	ed vertical angle	s. Vertical angles alwa	ys have	6
(c) [Describe how you can I	recognize vertica	al angles in a diagram _		
Use what yo	ou have learned above	to find the meas	ure of <i>h</i> .		
m∠	h = because _			h	52°

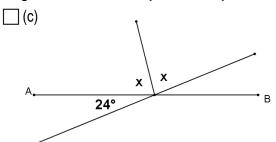




d = because because c =

(4) cont.

Angles: Use relationships to solve problems

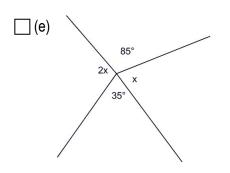


x = _____ because _

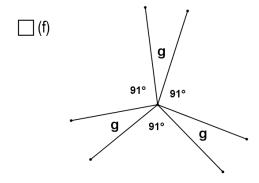
(d) 2x - 5 3x - 25

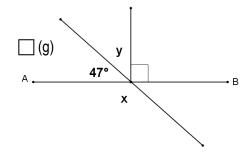
x = _____ because ____

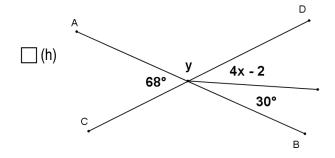
y = _____ because ____



x = _____ because _____ g = ____ because ____







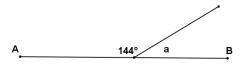
x = _____ because _____ x = ____ because ____

y = _____ because _____ y = ____ because ____

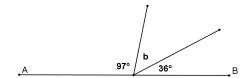
(4)

Angles: Use relationships to solve problems

(i)

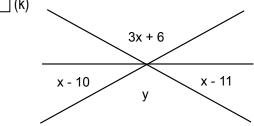


☐ (j)

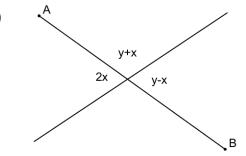


a = _____ because _____ b = ____ because ____

☐ (k)



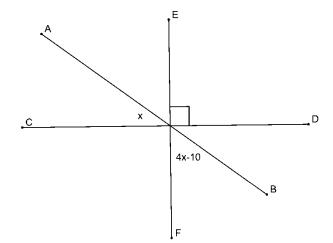
(I)



x = _____ because _____ x = ____ because ____

y = _____ because _____ y = ____ because ____

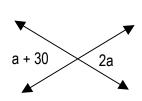
(m)

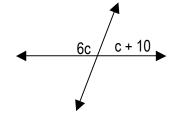


x = _____ because ____

(5) Exit Ticke

Find the measures of a and c. Show equations and explain your work.





a = ___ because____

c = ___ because ____

