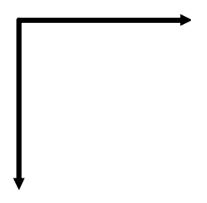
DO NOW – Geometry Regents Lomac 2014-2015 Date S	<u>9/18</u> d u	le <u>9/19</u>	Bisecting Angles 1.3
(1) Name, Group Number, Lesson Number, Date	Name		Per
(2) Sketch (a) a bisected segment (b) a bisected angle	SLO:	I can bisect an angle by compass and straighte	y folding paper or using a dge.
(3) Put the DO NOW/EXIT TICKET packet away.			
 (2) Crease the paper on this fold (the of (3) Mark point W on the crease you may (4) Use a straightedge and pencil to do (5) Mark the two adjacent angles in the congruent. (6) Repeat steps 1 through 5 for ∠B (I ∠C (I ∠D (I 	e angles in they mee crease shade in the raw ray A e diagrar label the abel the abel the abel the rite the p	meet exactly. (they shound an another, can you so the strength of the angle and the crease. Remember in with congruence mark onew ray BX), new ray CY), new ray DZ) The sthat each angle was desir of angles that are the strength of the str	till bisect the angle by tex, point A). ember rays have an arrow. s to show that they are
Constructing Angle Bisectors: Use a compass instead of folding to verify that you have each box as you complete each step. On the diagram with \angle A, choose a location on \overrightarrow{AF} (we'll to measure the distance from A to and construction of the circle and \overrightarrow{AF} shows us the location of the same length as _	\overrightarrow{AE} , draw I call it portion for cation for \overrightarrow{AE}	a point and label it P. int U) when you fold the cle centered at that	angle. Use your compass

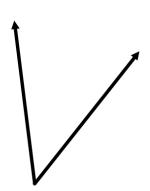
	1.0
<u>(2)</u>	☐ The bisector of the angle follows the crease you made which goes through of the
continued	angle. To bisect the angle with a compass, we need to construct a point inside the angle that is (circle one)
	closer to P closer to U the same distance from P and U
	☐ To construct this point, set a distance on your compass (it doesn't matter what distance) and construct a
	centered at point (blue) and construct a centered at point (green)
	using the same radius measure for both circles. The point where the two circles shows
	us a point that is equidistant from point and point because circle and circle have
	the same Label this point M. Since point M is equidistant from the sides of the angle, it must be
	on the of the angle which we creased and labeled ray
	When you constructed point M, was it on the crease you folded? Describe briefly why it did or did not
	fall on the crease
(3) compass	Constructing Angle Bisectors:
highlighters	Use your compass and the process you followed in (2) to verify the other three angle bisectors with your compass
	and construction.
(3)	Exit Ticket
	The steps used to bisect an angle are numbered and shown in the diagram. Complete the steps below.
	Step 1: Construct to show all the points and mark and label
	and
	Step 2: Construct to show all the points
	Step 3: Construct to show all the points
	Step 4: Mark the point where and 3 Step 5: Draw a ray by connecting and 3
	C
	5
	/4
	1/
	В В
	2

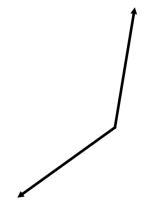
	(4)
com	nass

HOMEWORK:

compass highlighters Bisect the three angles below with a compass and straightedge







The sticks are represented by the dashed lines in the diagram. Construct angle bisectors as evidence to support your explanation.

