Geometry Note Sheet **DAY 7** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Definitions:**

* Rhombus: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* Rectangle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* Congruent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Construct a perpendicular bisector of segment AB is one of the sides in the square.

 

Construct an angle bisector for the angle shown:

Try to create each of these using the Constructions App. (Check them off as you create them)

* a perpendicular bisector of line segment \_\_\_\_\_\_\_\_
* an angle bisector \_\_\_\_\_\_\_\_
* a parallel line through a point \_\_\_\_\_\_\_\_
* a square \_\_\_\_\_\_\_\_

Construct a square with side lengths of AB, using a compass and straightedge:

Step 1: Extend AB and make a point to the right of B

Step 2: Use your compass to measure B to C and then make an arc from B on the other side and mark the intersection point D

Step 3: Create the perpendicular bisector of segment DC

Use the compass to measure AB then swing an arc above A, then move the compass and swing an arc above B.

Step 4: Put the point of the compass on the intersection above point B and swing to the left to intersect the arc above A. Connect the 4 points using a straightedge to make a square.

 