Geometry R – Mr. Bo Unit 4 – Review Name_____ Date_____

Complete a two-column, paragraph or flow chart proof.

1. Given: $\overrightarrow{DCE} / / \overrightarrow{AB}$ < 1 \approx < 2

Prove: $< A \cong < B$



2. Given:
$$\angle D \cong \angle 3$$

 \overrightarrow{AY} bisects < CAD







- 4. Use the diagram of lines m, o, s and t to answer the following questions.
- a. If $\angle 13 \cong \angle 5$, which lines must be parallel? State the theorem or postulate that justifies your conclusion
 - or postulate that justifies your conclusion.
- b. If $\angle 14 \cong \angle 6$, which lines must be parallel? State the theorem or postulate that justifies your conclusion.
- c. If s//t, what is the relationship between $\angle 16$ and $\angle 15$? State the theorem or postulate that justifies your conclusion.

5.

- a. Find the value of m in the **regular** pentagon.
- b. A regular polygon has 1 interior angle of 160°. How many sides does the polygon have?



6. Solve for x:





7. Sketch a picture as an example of each.a. A convex polygon.b. a concave polygon

c. a shape that is not a polygon.

8. Construct a line parallel to the line through the point P.



9. Construct a regular hexagon inscribed in Circle P and a square inscribed in circle A.

