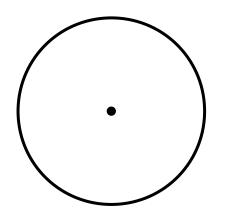
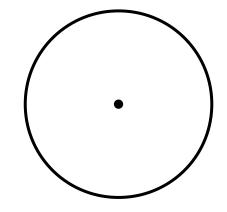
Geometry R – Mr. Bo Unit 7 – Test Day HW

Name_	
Date	

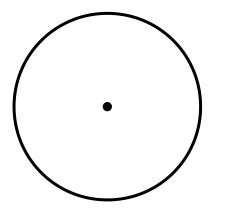
- 1. For each circle, construct the inscribed polygon named: (See Unit 4 Day 4 Notes for guidance)
- a. A square



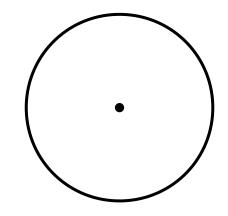
b. A Regular Hexagon



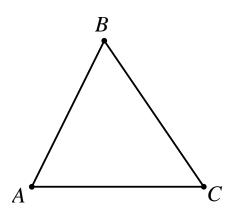
c. An Equilateral Triangle



d. A Regular Octagon



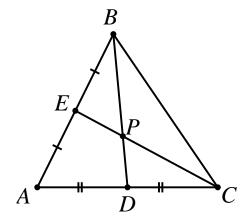
2. Construct a circle that circumscribes Triangle ABC.



3.

a. Based on the picture of Triangle ABC (given to the right), which statement most accurately describes \overline{BD} and \overline{CE} ? Why?

- \overline{BD} and \overline{CE} are Altitudes of $\triangle ABC$
- \overline{BD} and \overline{CE} are *Midsegments* of $\triangle ABC$
- \overline{BD} and \overline{CE} are *Medians* of $\triangle ABC$



- b. Based on the picture of Triangle ABC (given to the right), which statement most accurately describes point P? Why?
 - P is the *Incenter* of $\triangle ABC$
 - P is the *Circumcenter* of $\triangle ABC$
 - P is the Centroid of $\triangle ABC$
 - P is the *Orthocenter* of $\triangle ABC$
- c. Given: BD=36 and BP=5x+9, find the value of x and the lengths of BP and PD.