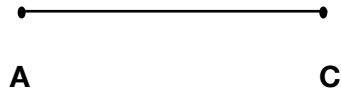


Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Math 101: Assignment #4

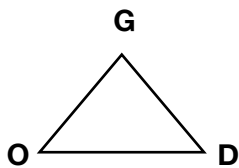
1. Label the following:



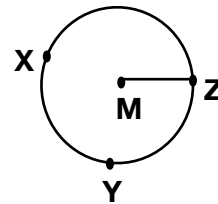
\_\_\_\_\_



\_\_\_\_\_



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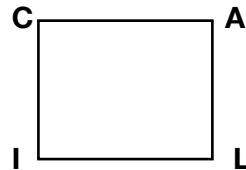


\_\_\_\_\_

\_\_\_\_\_

Name the circle,  
center, and radius

\_\_\_\_\_



\_\_\_\_\_

2. Draw the following:

$\overline{NO}$ :

$\overline{EL} + \overline{AY}$ :

Equilateral  $\triangle COW$ :

Circle  $RED$  with center at point  $A$ :

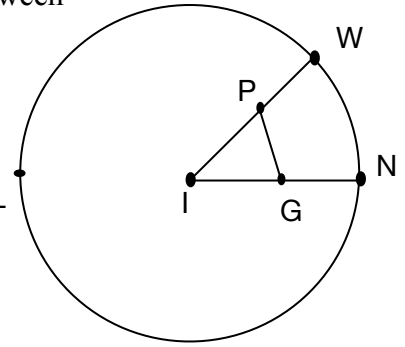
Isosceles  $\triangle HEY$ :

Right angle  $CAT$ :

$\overline{XY} \perp \overline{ST}$  at N:

Rectilinear acute angle  $\theta$ :

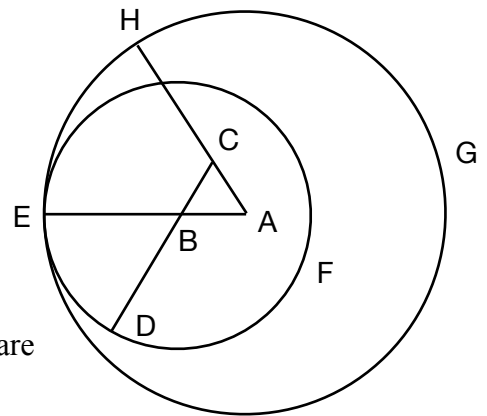
3. If point  $I$  is the center of circle  $WLN$ , what is the relationship between the lines  $\overline{IW}$  and  $\overline{IN}$ ?



4. If  $\triangle PIG$  is equilateral, what is the relationship between lines  $\overline{PI}$ ,  $\overline{IG}$ , and  $\overline{GP}$ ?

5. Given #2 and #3, show  $\overline{PW} = \overline{GN}$ .

6. What are all the line segments in the diagram? (Hint: There are 9)



7. What are the two circles in the diagram? (Hint: There are 2)

8. If Point B is the center of the smaller circle, what line segments are equal to one another?

9. If Point A is the center of the larger circle, what line segments are equal to one another?

10. What did you do over the long weekend?!