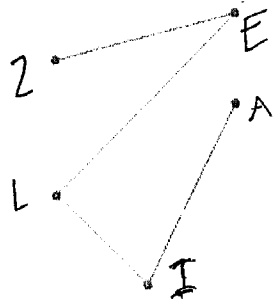**Study Guide Chapter 9**   **Math 7**

1. Provide an example of both a drawing and sketch. Then, explain the difference between the two.

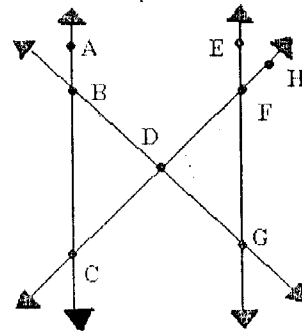2. Zelia added the design below to her name plate.

   a. List all the named points in Zelia's drawing.

   b. List all the line segments in Wendy's drawing.

3. An arc of a circle contains points A, B, and C. The circle has center D. The length of $\overline{DA}$ is 9 inches. What is the sum of the lengths of $\overline{DA}$, $\overline{DB}$, and $\overline{DC}$? Explain your reasoning.
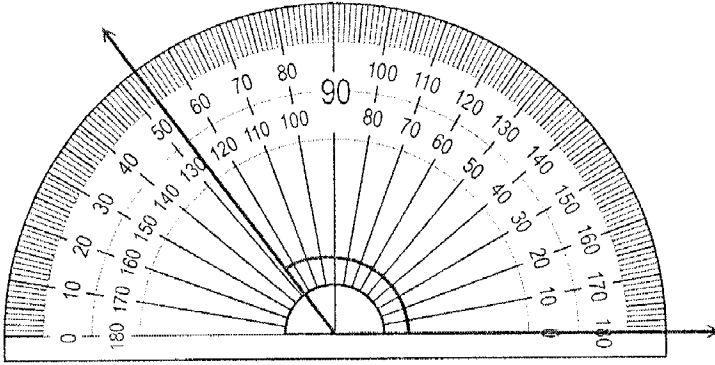
4. Dylan drew the following figure that he plans to add to his nameplate.
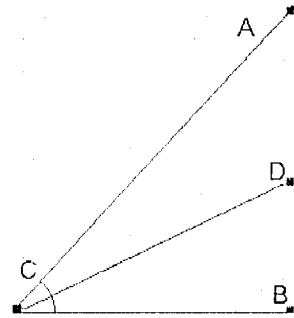

   a. List all the rays in Dylan's figure.

   b. List all the angles in Dylan's figure. Do not include straight angles.

6. Frances measures an angle as shown below.

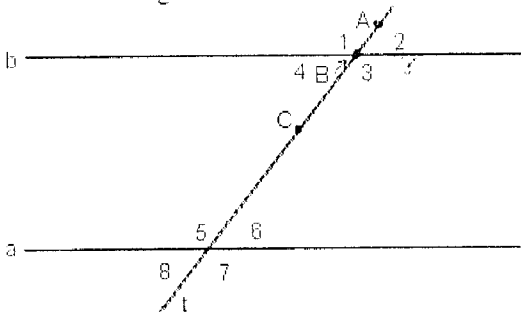a. What is the measure of the angle? How do you know?

5. Angle *ACB* is bisected by $\overrightarrow{CD}$. The measure of <*DCB* is 32°.

a. What is $m < ACD$? Explain your reasoning.

b. What is $m < ACB$? Explain your reasoning.

7. Carmel Avenue & Ocean Boulevard both intersect at point *B*. Carmel Avenue is parallel to Junipero Street. The measure of angle 3 is 100°.

a. What is $m<1$?

b. What is the $m<2$?

c. Which angle(s) is/are congruent to <8?

d. ~~What to~~ **which two** angles are ~~complementary~~ **Supplementary** to <7?

3