Lesson #36

**SS1: Solve problems and justify the solution strategy using circle properties including:**

• **the perpendicular from the center of a circle to a chord bisects the chord**

• **the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc**

• **the inscribed angles subtended by the same arc are congruent**

• **a tangent to a circle is perpendicular to the radius at the point of tangency.**

Circle Properties #2 and 3

1. Watch the YouTube lesson: <https://youtu.be/YdVt-0JpGjg>
2. Complete the following questions on page 77B or 77C in your notebooks:
3. Explain the following terms in your own words or using a drawing:

a) central angle-

b) inscribed angle-

c) Circumference-

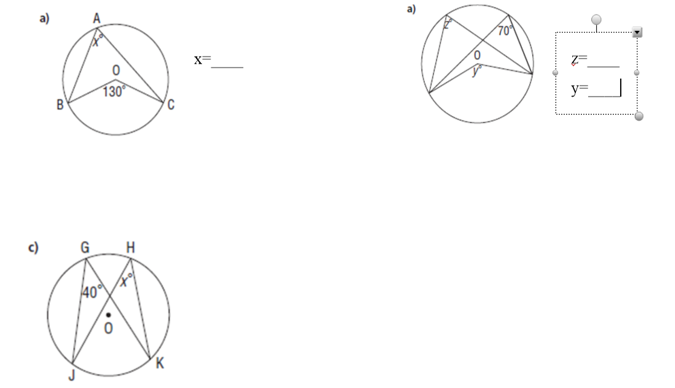
d) Arc

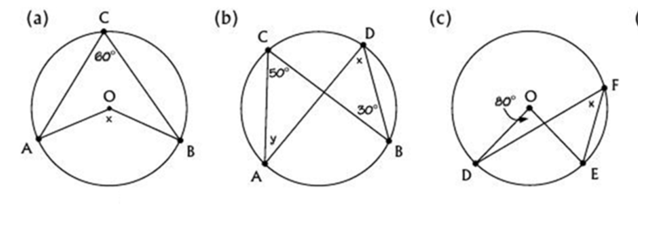
e) right angle

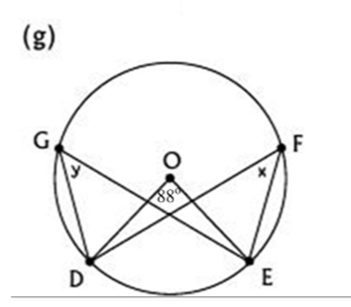
f) diameter-

g) radius-

1. Find the missing angles. Note how you found that answer. Was it circle property #2 (central angle and inscribed angle) or circle property #3 (inscribed angles subtended by the same arc)?







Correct your answers with mine below.

