**SLO: I can solve problems involving lengths if intersecting chords.** Problems worthy of attack prove their worth by fighting back. —Piet Hein THE ROAD TO WISDOM? Well, it's plain and simple to express. Err and err and err again, but less and less and less. — Piet Hein.
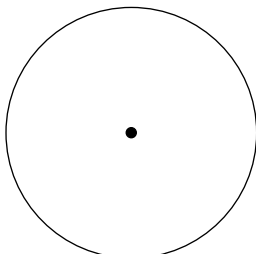
VOCABULARY (have your vocabulary sheet out EVERY day)

(1) TO READ AND DO: Use the website link for Task 7 #1 or your textbook to investigate the relationship between angles formed by intersecting chords and the arcs they intercept. Drag points to change the values. Complete a sketch for 3 diagrams that you made. Be sure to label the points of intersections with their letters and the chord segments with their lengths. (You may only have intersecting diameters once.)
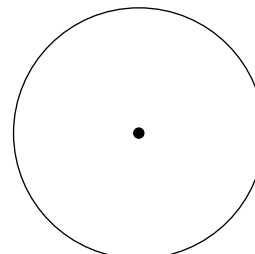
____ ____ ____ ____
AE   BE   CE   DE

____ ____ ____ ____
AE   BE   CE   DE
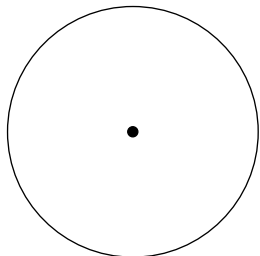
____ ____ ____ ____
AE   BE   CE   DE

Equation showing relationship between AE and BE & CE and DE

Equation showing relationship between AE and BE & CE and DE

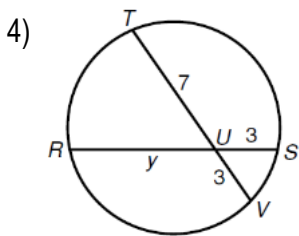Equation showing relationship between AE and BE & CE and DE
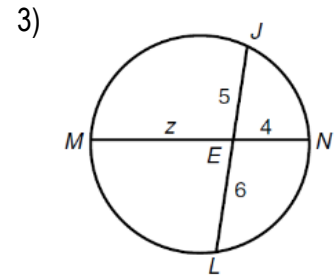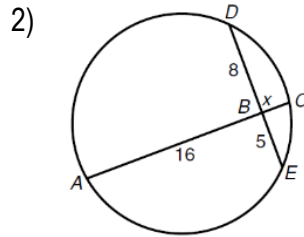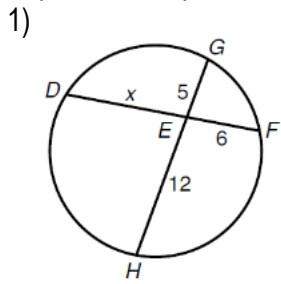
Write a sentence that summarizes the relationship between the measures of the segments of intersecting chords. Include a

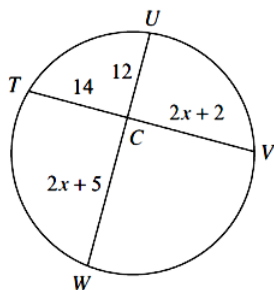labeled diagram and an equation showing the relationship.

_____

_____
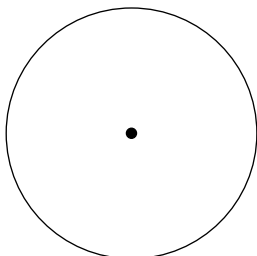
Equation:_____

SLO: I can solve problems involving secants, angles, and intercepted arcs. Problems worthy of attack prove their worth by fighting
back. —Piet Hein THE ROAD TO WISDOM? Well, it's plain and simple to express. Err and err and err again, but less and less and less. — Piet Hein.

Find the variable or the indicated arc or angle measure.. *** Highlighting arcs and angles can be helpful. Odd problems
required, even problems are good practice.

1)

2)

3)

4)

5)

7)   Find *UW*

8)   Find *CA*