Geometry: Circles Skill/Task 5 & 6 Name_____Per___

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.

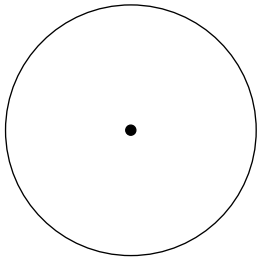
VOCABULARY (have your vocabulary sheet out EVERY day)

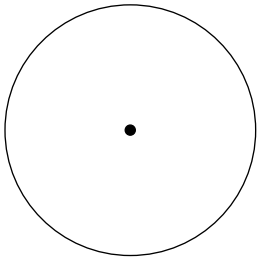
(1) Define secant and tangent on your vocabulary sheet. Use the link on my website under circles unit task 5 secant & tangent.

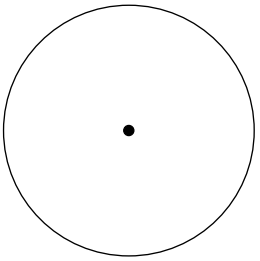
(2) TO READ AND DO: Use the website link for Task 5 #2 or your textbook to investigate the relationship between angles formed by intersecting chords and the arcs they intercept. Complete a sketch for each example. Be sure to label the vertical angles 45 degree angles and the arc measures.

Two secants, or a secant and tangent, or 2 tangents intersect a circle. Write relationships between the angle and intercepted arcs.

2 Secants	2 tangents	1 secant 1 tangent
_____, _____, _____	_____, _____, _____	_____, _____, _____
angle, close arc, far arc	angle, close arc, far arc	angle, close arc, far arc



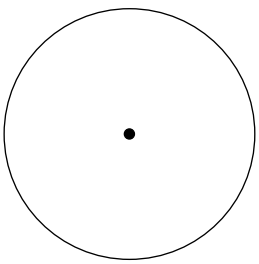


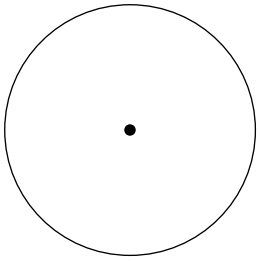


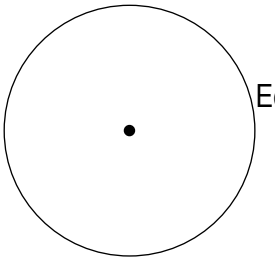
Write a sentence that summarizes the relationship between the measure of an angle formed by secants and/or tangents and the arcs intercepted by it. Include a labeled diagram and an equation showing the relationship.

_____

_____







Equation:_____

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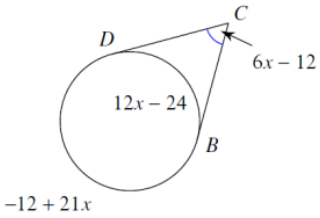
Find the variable or the indicated arc or angle measure.. *** Highlighting arcs and angles can be helpful. Odd problems required, even problems are good practice.

1) Find $m\widehat{BD}$



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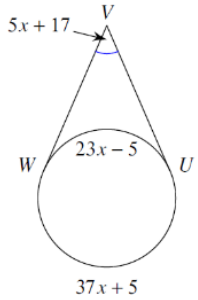

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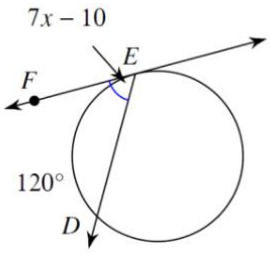

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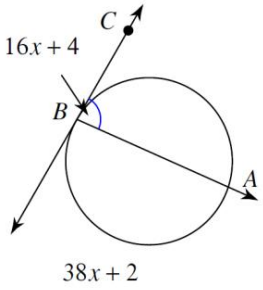
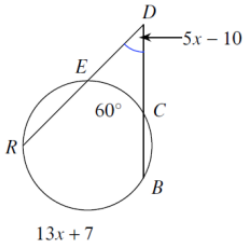


5) Find $m\widehat{RB}$



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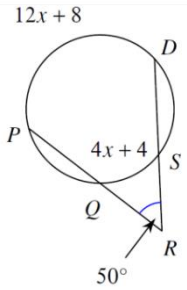

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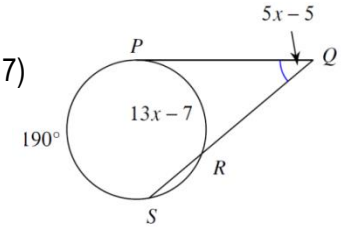

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