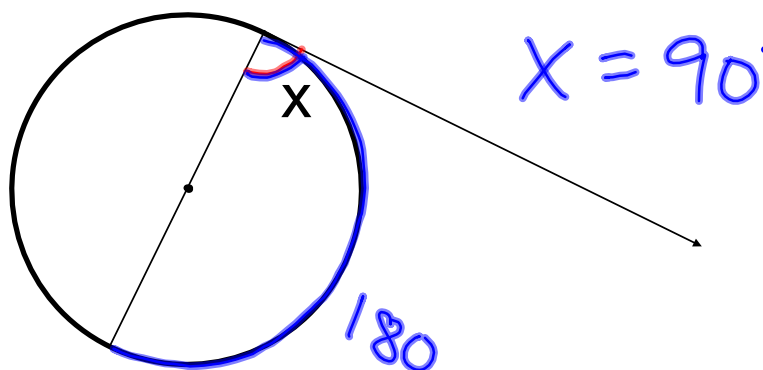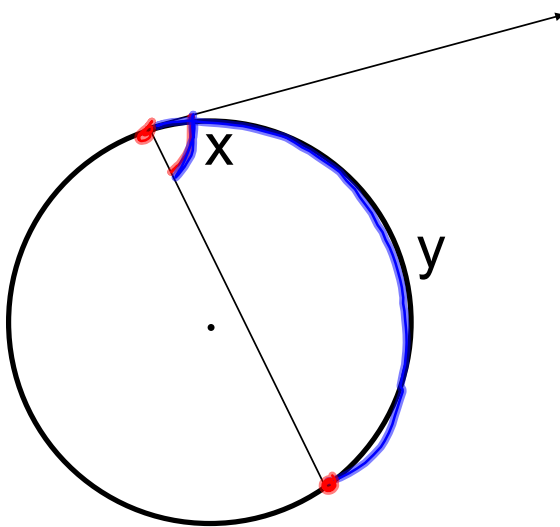Do-now:

1. Turn in Classwork from Friday (Practice with Chords, Tangents, and Inscribed Angles)

2. What is the value of x below?
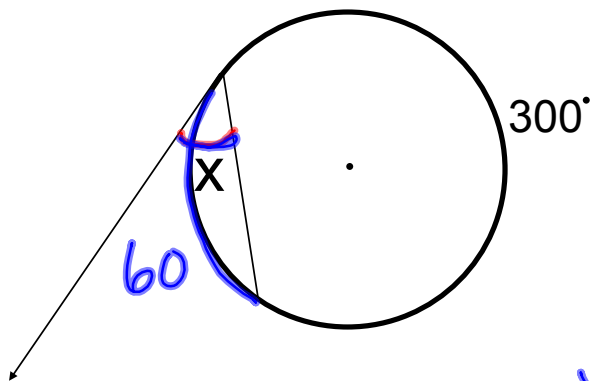

$X = 90°$

Angle Formed By a Chord and a Tangent

x

y

$$x = \frac{1}{2}y$$

What is the value of x?

300°

X

60
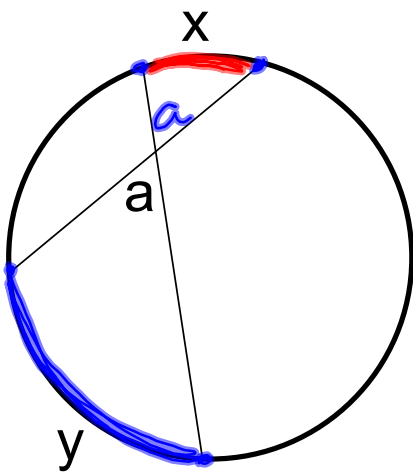
$360 - 300 = 60$

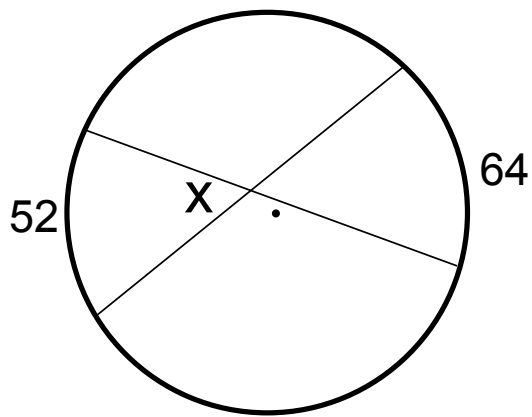$x = \frac{1}{2}(60)$

$X = 30$

Angles Formed By Two Intersecting Chords

$$\frac{x+y}{2} = a$$

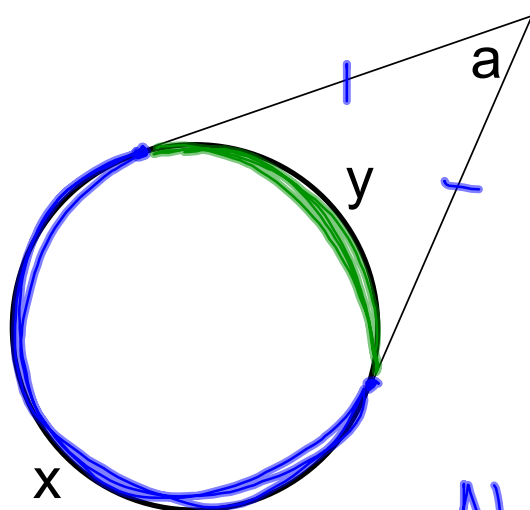What is the value of x in the figure below?

52

X

64

$$\frac{52+64}{2} = X$$
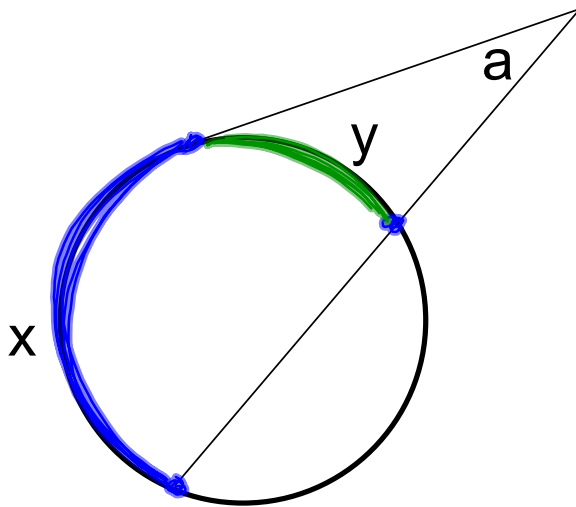
$$\frac{116}{2} = X$$

$$58 = X$$
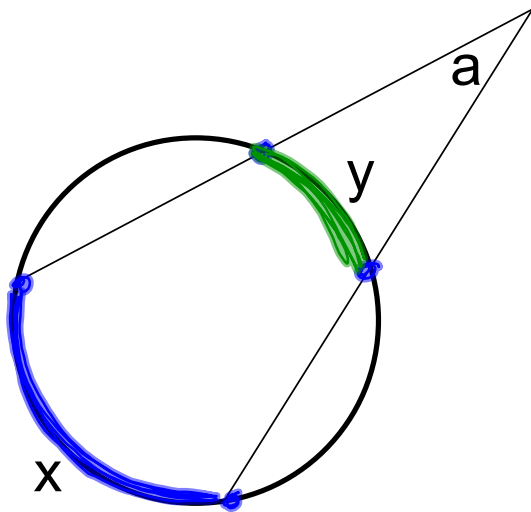
Angle Formed by Two Tangents

$$\frac{x - y}{2} = a$$

Note: $x + y = 360$

Angle Formed by a Tangent and Secant
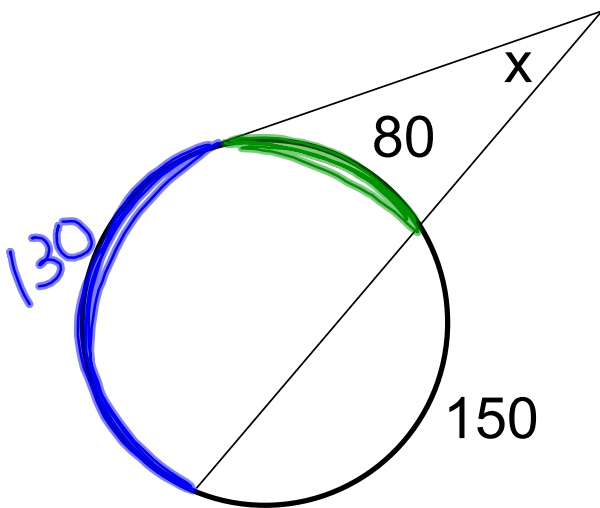
a

y

x

$$\frac{x - y}{2} = a$$

Angle Formed by Two Secants

a

y

x

$$\frac{x-y}{2} = a$$

What is the value of x in the diagram below?

$$360 - 230 = 130$$

$$\frac{130 - 80}{2} = x$$

$$\frac{50}{2} = x$$

$$\boxed{25 = x}$$

Classwork: (We will go over at the end of the period as a class.
I will randomly call on students for answers and explanations!)

Page 691 #s 1 - 6

Page 709 #s 16 - 18

ES - (Turn in on looseleaf) page 692 #34

1) x = 46   2) x = 50   3) x = 60, y = 70

4) x = 60   5) x = 115, y = 74   6) x = 108, y = 72

16) a = 95, b = 85   17) x = 37

18) x = 57, y = 44.5, z = 129, v = 51