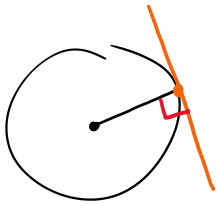
Printout

June 16, 2023 8:46 AM



Math 9 Circles Review

Lesson 1: tangents

Tangent-Radius Property: a tangent to a circle is perpendicular to the radius at the point of tangency.

Lesson 2: ~~Cords~~ Chords

The perpendicular bisector of any chord passes through the center of the circle.

The perpendicular from the centre of the circle to a chord bisects the cord.

Lesson 3: Angles

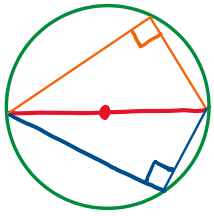
Central and Inscribed Angle Prosperity: The measure of a central angle is twice the measure of an inscribed angle subtended by the same arc.

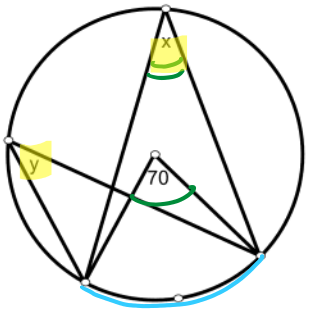
Angles in a Semicircle Property: An angle inscribed on a semicircle is a Right angle.

Inscribed Angle Property: Inscribed angles subtended by the same are of a circle are equal.

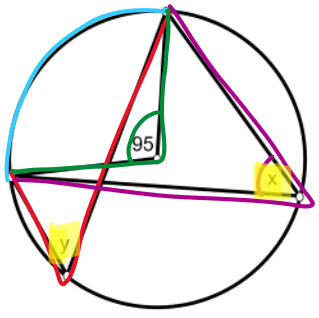
Review Q

Pg 418 #1-10
Pg 420 #1-4, 6

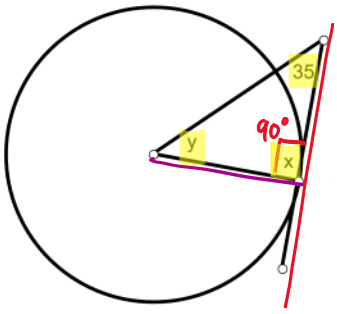




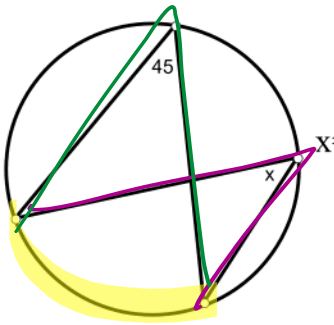
x= 35°
y= 35°



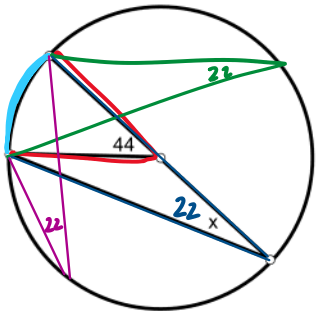
x= 47.5°
y= 47.5°



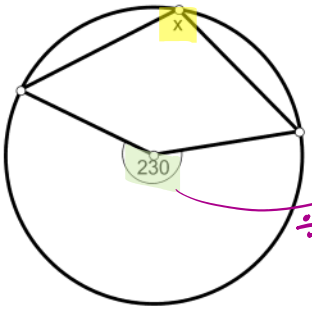
x= 90°
y= 180 - 90 - 35°
∠y = 55°



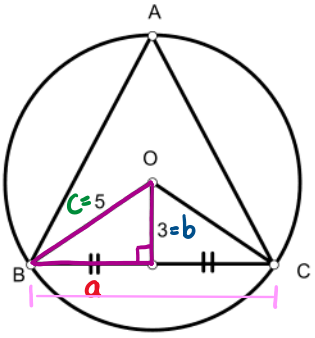
x= 45°



x= 22°



x= 115°
÷2



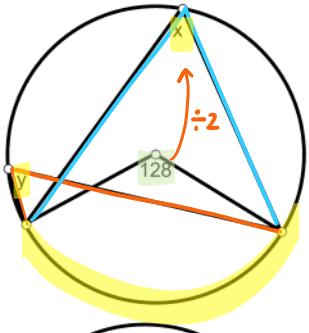
BC= 8

$a^2 + b^2 = c^2$

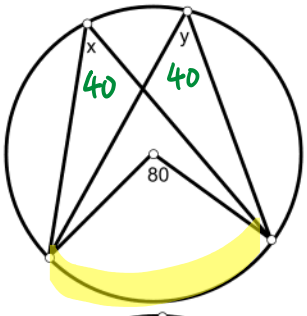
$a^2 + 3^2 = 5^2$

$a^2 = 25 - 9$

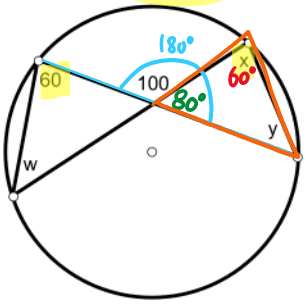
$a^2 = 16$ $a = 4$



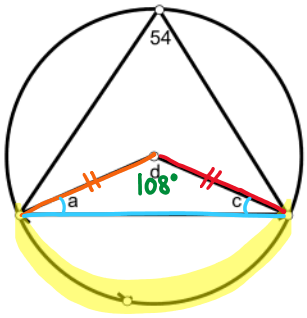
x= 64°
y= 64°



x= 40°
y= 40°



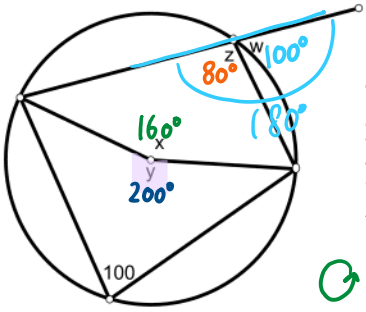
w= 40°
x= 60°
y= 180 - 80 - 60
∠y = 40°



a= 36°
d= 108° ← (54×2)
c= 36°

180° - 108° = 72°

$\frac{72}{2} = 36°$ ∠a ∠c



w= 100°
x= 160°
y= 200°
z= 80°

360°