

— Arc Length

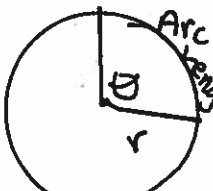
$$\frac{\angle}{360} = \frac{\text{Arc length}}{\text{Circumference}}$$

↑
2πr or πd

— Sector Area

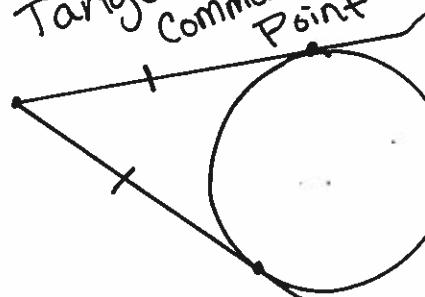
$$\frac{\angle}{360} = \frac{\text{sector}}{\pi r^2}$$

— Radian Measure

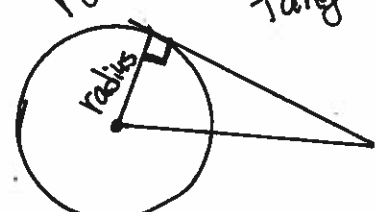


Rad = $\frac{\text{Arc length}}{\text{radius}}$

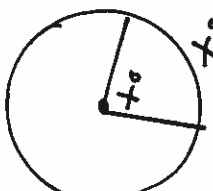
— Tangent with Common external Point



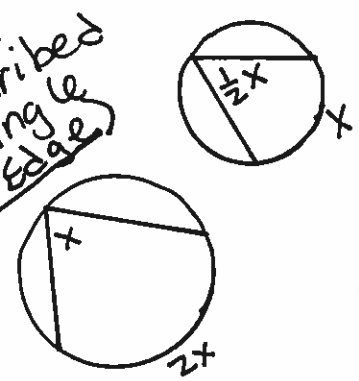
— Tangent line and radius make right angle. Tangent



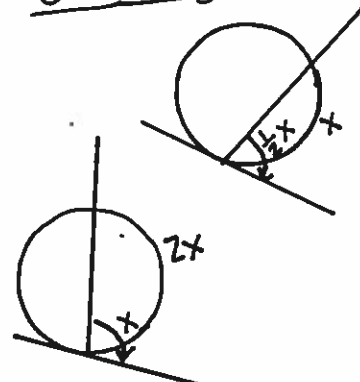
— Central Angle



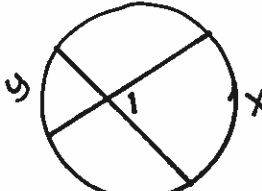
— Inscribed Angle (on edge)



— on Edge

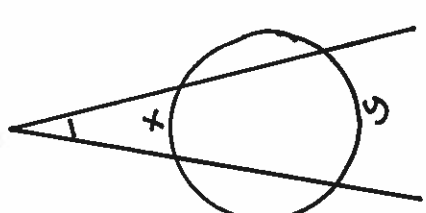


— "middleish"



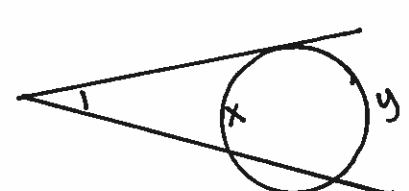
$$m\angle 1 = \frac{x+y}{2}$$

— outside 2 secants



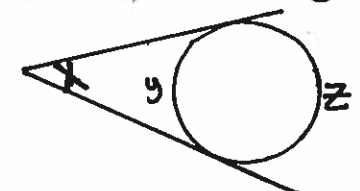
$$m\angle 1 = \frac{y-x}{2}$$

— outside Tangent & secant



$$m\angle 1 = \frac{y-x}{2}$$

— outside 2 tangents



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

* $x + y = 180^\circ$
only for "Eiffel Hat"