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| Central **Angle** Θ = intercepted arc | Inscribed **Angle**Θ = half the intercepted arc | **Hypotenuse** of Inscribed Right Triangle is **Diameter** |
| Two **angles** that share the same intercepted arc are congruent. | Opposite **angles** of inscribed quadrilateral are supplementary.a + b = 180°; c + d = 180° | Diameter bisects a perpendicular chord and its arc. |
| Two minor arcs are congruent if their corresponding chords are congruent. | Two chords are congruent if their midpoints are equidistant from the center. | A tangent is perpendicular to the radius of a circle. |
| Tangent segments from a common external point are congruent. | $$Arc Length =\frac{A°}{360°}(Circumference)$$ | $$Sector Area =\frac{A°}{360°}(Area)$$ |
| **Angle** with vertex **on** the circle Θ = ½ a | **Angle** with vertex **inside** circleΘ = ½ (a + b) | **Angle** with vertex **outside** circle.Θ = ½ (d - c) |
| **Segments** intersecting **inside** circleab = cd | **Segments** intersecting **outside** circlea(a+b) = c(c+d) | **Tangent and segment**a² = b(b+c) |