

Circle Theorems Cheat Sheet



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Angle formed by Two Secants = $\frac{1}{2}$ the difference of Intercepted Arc



$$ACD = \frac{1}{2} (\widehat{AD} - \widehat{BE})$$

$$ACD = \frac{1}{2} (120^{\circ} - 30^{\circ})$$

$$ACD = \frac{1}{2} (90^{\circ})$$

$$ACD = 45^{\circ}$$

Angle formed by a Secant and Tangent = $\frac{1}{2}$ the difference of Intercepted Arc $\Rightarrow ACD = \frac{1}{2}(\widehat{AD} - \widehat{BD})$ $\Rightarrow ACD = \frac{1}{2}(180^{\circ} - 70^{\circ})$ $\Rightarrow ACD = \frac{1}{2}(110^{\circ})$ $\Rightarrow ACD = 55^{\circ}$



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 $\sphericalangle COD \cong \sphericalangle AOB$ Therefore, $\widehat{AB} \cong \widehat{CD}$



$$\measuredangle COD \cong \measuredangle AOB$$
 Therefore, $\widehat{AB} \cong \widehat{CD}$

