~Inscribed Angles & Quadrilaterals Notes~

* **Inscribed Angle –**
* **Formula –**

**Examples of Inscribed Angles:**

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| 1. **Find the value of x and y**

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| 1. **If *m*JK = 80° and JMK = 2x – 4, find x.**
2. **If *m* MKS = 56°, find *m* MS.**
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| 1. **Find the measure of DOG and DIG**

**\*\* If two \_\_\_\_\_\_\_\_\_\_\_\_ angles intercept the same arc, then they are \_\_\_\_\_\_\_\_\_\_\_.** |   |

* **If all the \_\_\_\_\_\_\_\_\_\_\_\_ of a polygon \_\_\_\_\_\_\_\_the edge of the \_\_\_\_\_\_\_\_, the polygon is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the circle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**



* **Quadrilateral inscribed in a circle: opposite angles are** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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|  | **\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_ = 180°****\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_ = 180°** |

* **If a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_is inscribed in a circle then the *\_\_\_\_\_\_\_\_\_\_\_\_\_\_* is the diameter of the circle.**



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| 1. **In** ⊙**J, *m*  3 = 5x and *m* 4 = 2x + 9.**

***Find the value of x.*** | 1. **In** ⊙**K, GH is a diameter and *m* GNH = 4x – 14. *Find the value of x.***

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| 1. **Find y and z.**
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