**Circle**

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| 1 |  |  |
| 2 | Radian: |  |
| 3 | Radiant: |  |

**8 Geometrical Properties of circles**

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| 1 | Angle at the center of the circle is 2x the angle at the circumference subtended by the same arc:  Angle at center = 2x angle at segment |  |
| 2 | Every angle subtended by the diameter of a semicircle is a 90 degree:  Right Angle of Semi-circle |  |
| 3 | Angle in the same segment of a circle have the same angle:  Angle in the same segment |  |
| 4 | In a cyclic quadrilateral, the opposite angle add up to 180 degree:  Opposite angle of cycle quad. |  |
| 5 | If one side of a cyclic quadrilateral is produced, the exterior angle formed is the same to the interior opposite angle:  Ext. angle of cycle quad. |  |
| 6 | A tangent to a circle is perpendicular to the radius  Tangent perpendicular to radius |  |
| 7 | Tangent from external point  Congruent Triangle |  |
| 8 | An angle between a tangent and a chord through the point of contact is the same to the angle in the alternate segment  Alternate Segment Theorem |  |