|  |  |
| --- | --- |
| a line in the plane of the circle that intersects the circle in exactly one point |  |
|  the point where a circle and a tangent intersect https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcT4wZB2ilKj9H1MngxjV6I5JIntN46ywq1PfjCLnfCVw4lK4gUc | a half of a circle or of its circumference. |
| Then the line is perpendicular to the radius at the point of tangency | the smaller of the two arcs formed when a circle is divided into two unequal parts. |
|  | The larger arc joining two points on the circumference (edge) of a circle.https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcTLn-idaTwerIutuyYWtP5JGVM3LWHZ8cC9Y5SI7sd-QVA9csBL0w |
|  |  |  |  Geometryby SharrerCirclesp1/4Tangent to a circle |
| Semicircle |  |  | Point of tangency |
| Minor Arc |  |  | (theorem)If a line is tangent to a circlethen… |
| Major Arc |  |  |  |
| a straight line that cuts a curve in two or more parts.https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcQH0scWu2j_5LqzU7l14wOPnb0cGLkr4nPAdoUj4SDy5Ht0LakcoQ  | circles that all have the same center |
|  Arcs next to each other on the circumference of a circle\_\_\_\_ | two circles with the same radii , diameter, or circumference |
| the linear distance around the edge of a closed curve or circular object. | these are equal if they have the same angle measure |
| https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcQ54fqP1OVGeB1AG-5r_8-Buzs2_9hw8M0LtU67qCOMwEv-f7Yc | * The central angles that create them are $≅$
* Their arcs are $≅$
* They are the same distance from the center
 |
| Concentric Circles |  |  |  Geometryby SharrerCirclesp2/4Secant |
| **Circles** are $≅$when… |  |  | Adjacent Arcs |
| **Arcs**are $≅$when… |  |  | circumference(define) |
| **Chords**are $≅$when… |  |  | pi |
|  | The distance along the arc (part of the circumference of a circle, or any curve) |
|  The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs | the measure of an arc’s central angle |
| $$=πr^{2}$$ | … |
| this is the product of the ratio | … |
| Arc Length |  |  |  Geometryby SharrerCirclesp3/3 |
| Arc Measure |  |  | Arc Addition Postulate |
| . |  |  | Circumference of a Circle (formula)C= |
|  |  |  | Arc Length (theorem) |
|  |  |
|  |  |
| http://www.msdgeometry.com/joomla/images/stories/angles%20of%20tangents%20secants.jpg |  |
|  | $$\overbar{BA}≅\overbar{BC}$$ |
|  ? |  |  |  Geometryby SharrerCirclesp4/4 ? |
| ? |  |  |  ? |
|  ? |  |  | =? =?=? |
| $$\overbar{BA}≅ ?$$ |  |  | ? |