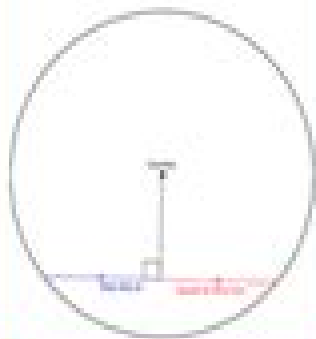


Euclidean Geometry Rules

1. The line drawn from the centre of a circle perpendicular to a chord bisects the chord.

Maths Statement: Line through centre and $\perp$ chord



2. The perpendicular bisector of a chord passes through the centre of the circle.

Maths Statement: $\perp$ bis. bisector of chord



Means:

3. The angle subtended by an arc at the centre of a circle is double the size of the angle subtended by the same arc at the circle.

Maths Statement:

$$\angle \text{at centre} = 2 \times \angle \text{at } Q \text{ or } R$$



4. Angles subtended by a chord of the circle on the same side of the chord are equal.

Maths Statement:

$\angle$ s in same segment



5. The opposite angles of a cyclic quadrilateral are supplementary.

Maths Statement: opp. $\angle$ s of cyclic quad.



6. Two tangents drawn to a circle from the same point outside the circle are equal in length.

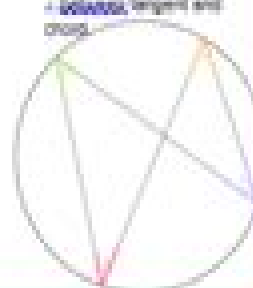
Maths Statement: tangents from point outside $\angle$



7. The angle between the tangent to a circle and the chord drawn from the point of contact is equal to the angle in the alternate segment.

Maths Statement:

$\angle$ between tangent and chord



8. A tangent to a circle is perpendicular to the radius, drawn to the point of contact.

Maths Statement:

$\perp$ radius



Euclidean Geometry Properties Of Circles

Yi-Tong Ma



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