

## Circle Theorem 5: Alternate Segment

The angle between a chord and the tangent at the point of contact is equal to the angle in the alternate segment.


Facts: (not quite theorems, but should be remembered)

Any triangle with two points at the circumference and one in the centre is isosceles.
Any tangent is perpendicular to the radius at the point of contact.
Any triangle created by two crossing tangents and the line joining their point of contact is isosceles.
A chord bisected by a radius is at right angles to it; a chord perpendicular to a radius is bisected by it.

