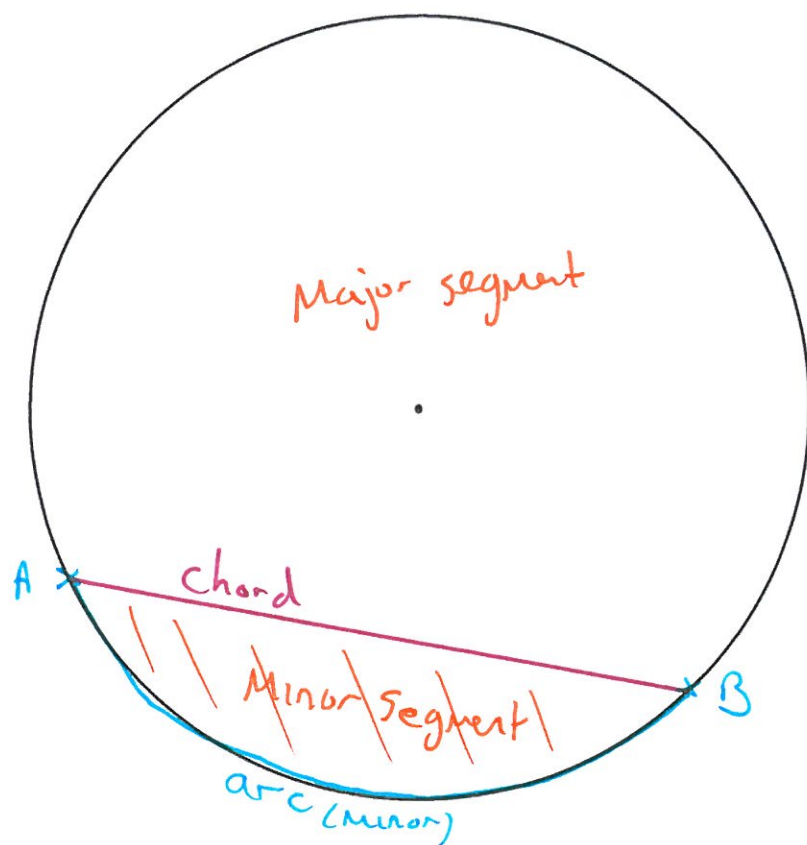
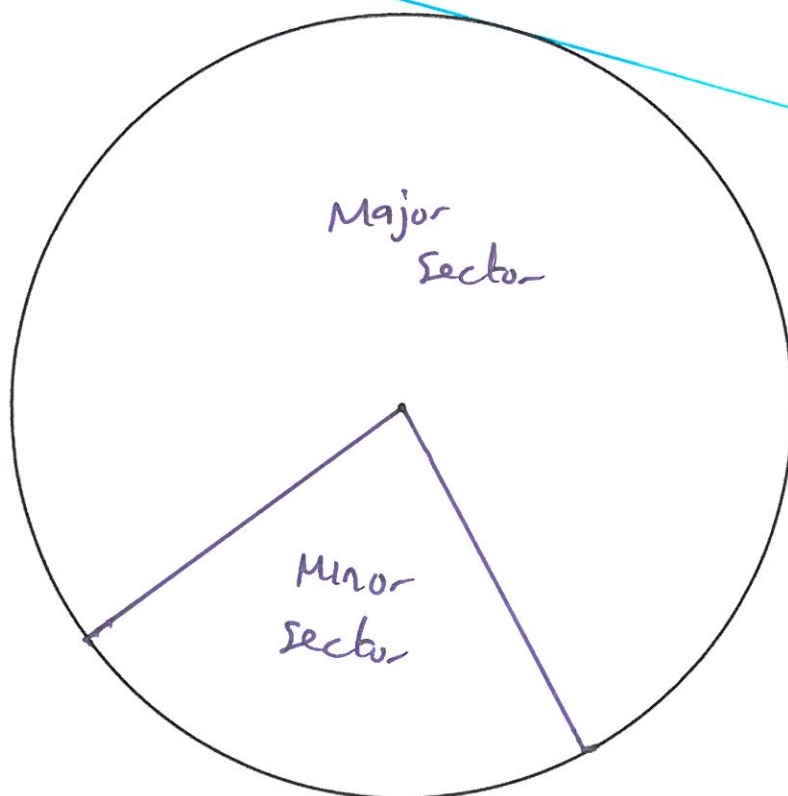


arc
chord
segment

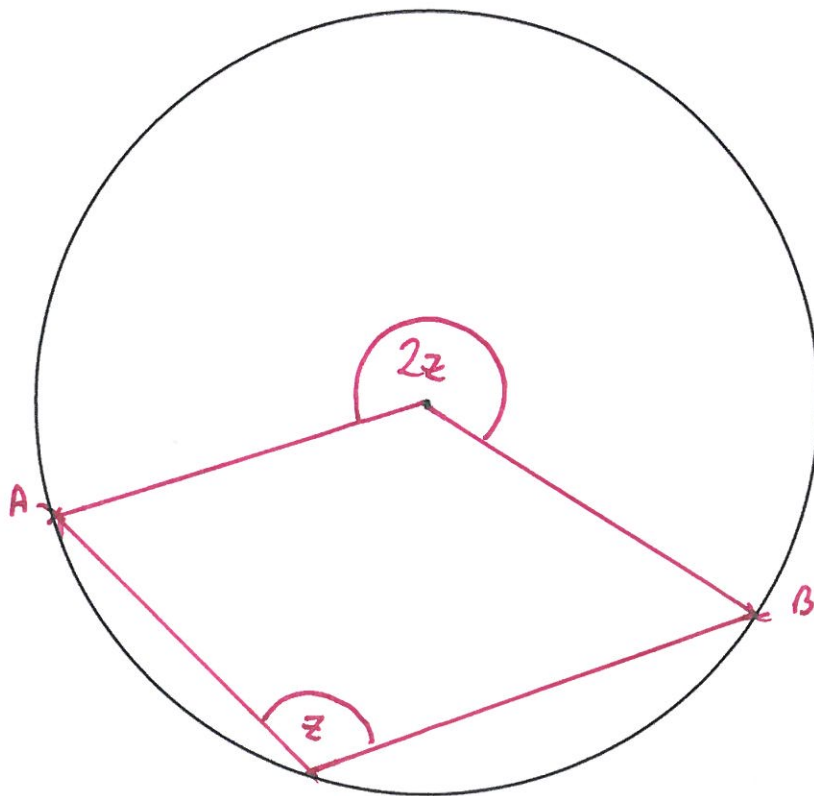
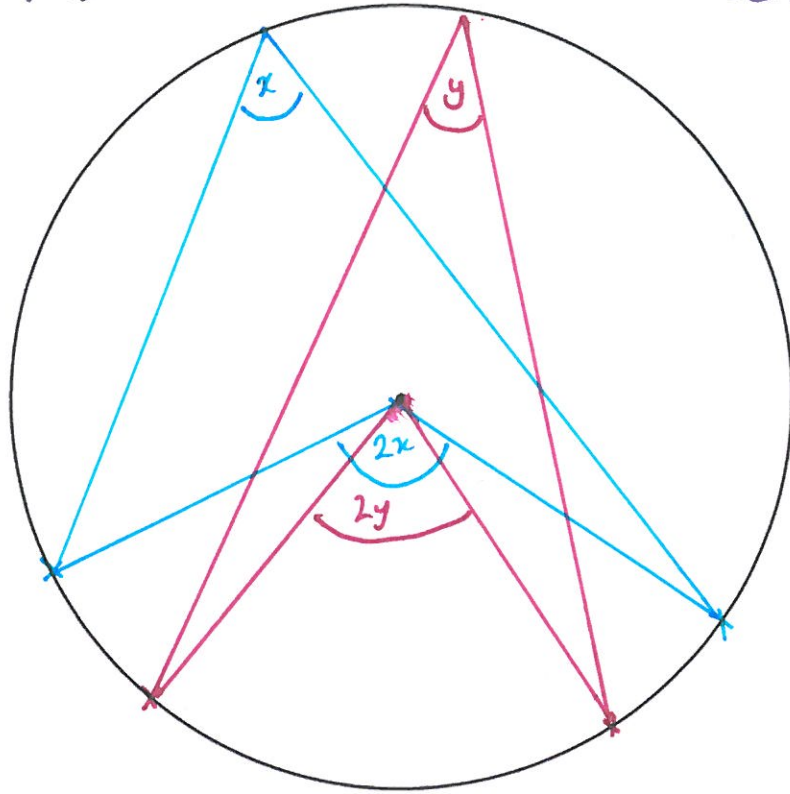


tangent

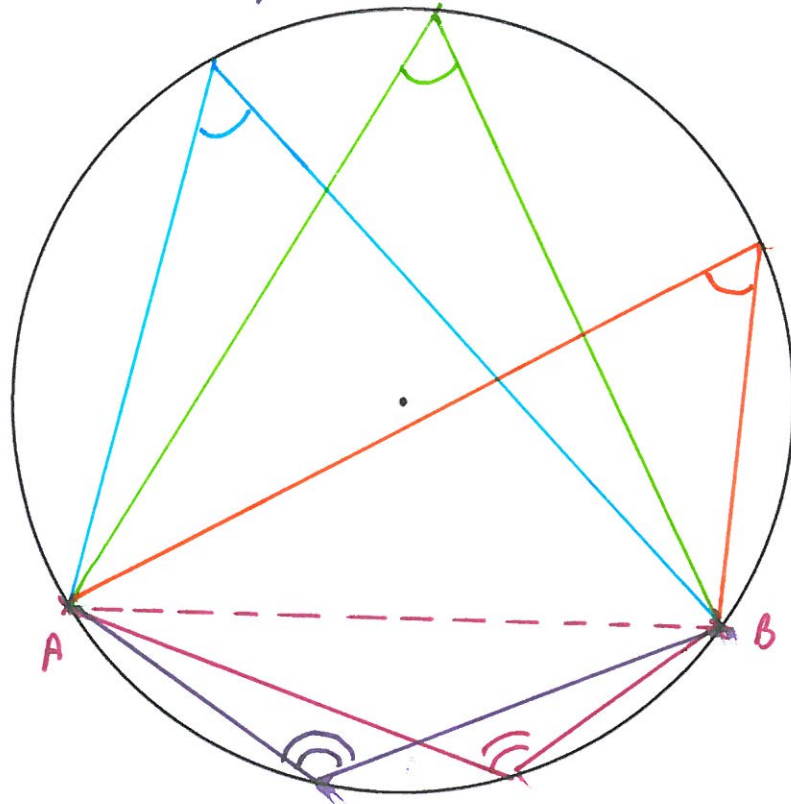
Tangent
Sector



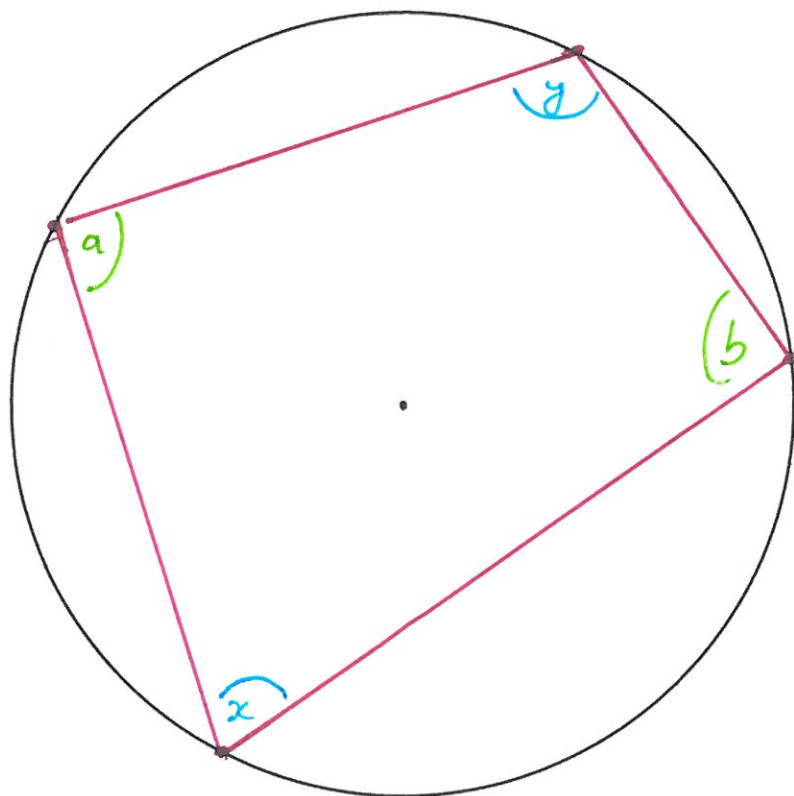
- ① The angle subtended at the centre of a circle is twice the angle subtended at the circumference.



- ② Angles subtended by an arc in the same segment of a circle are equal



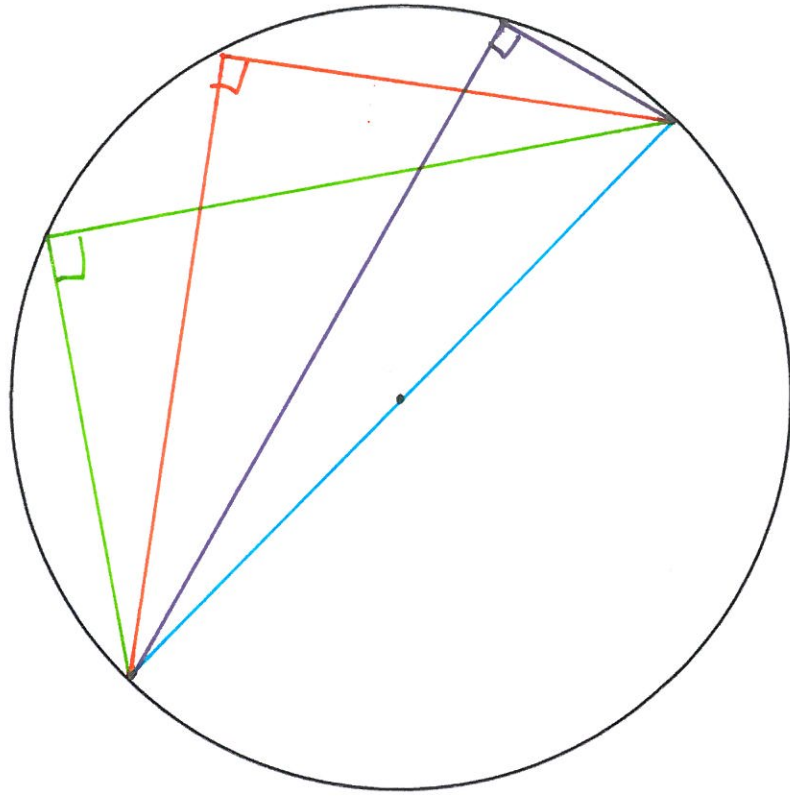
- ③ Opposite angles in a cyclic quadrilateral add up to 180°



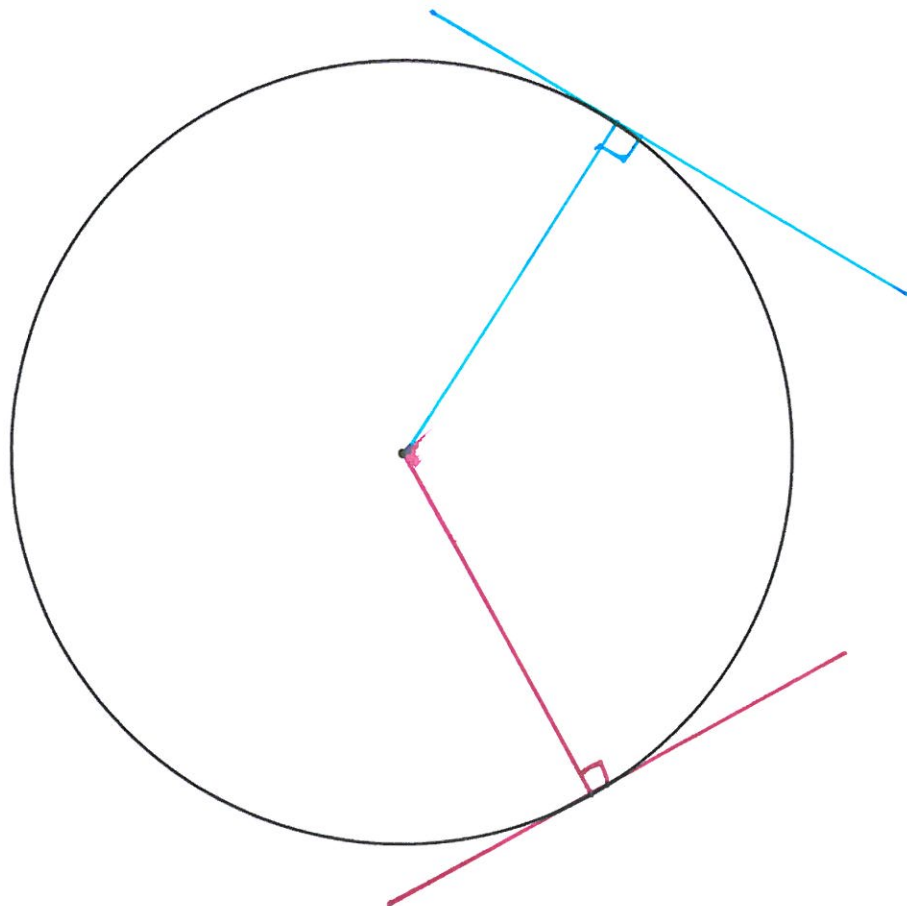
$$x + y = 180^\circ$$

$$a + b = 180^\circ$$

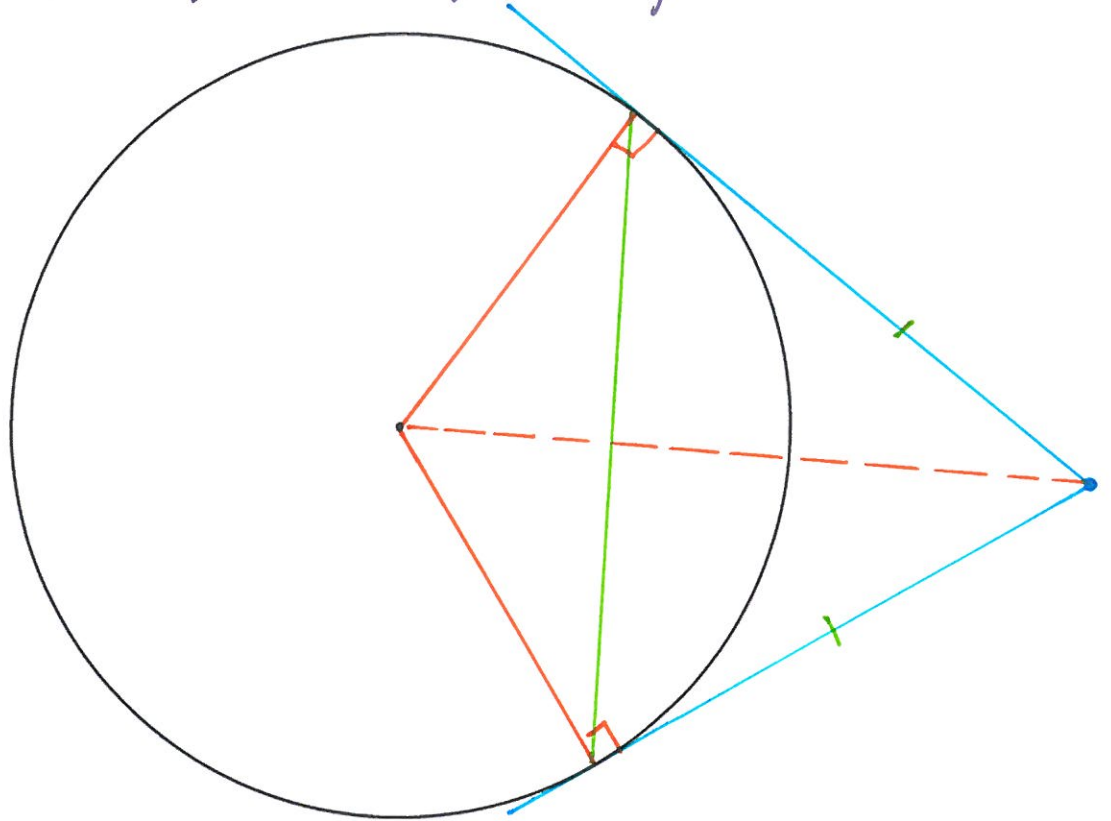
(4) The angle in a semi-circle is a right angle



(5) The angle between a tangent and the radius drawn to the point of contact is 90°



- (6) From any point outside a circle, just two tangents may be drawn and they are of equal length.



- (7) Alternate Segment Theorem: The angle between a tangent and a chord through the point of contact is equal to the angle subtended by the chord in the alternate segment.

