

15. Circles

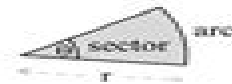
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(a) arcs, sectors, segments

$$\text{Arc length} = \frac{\theta}{360} \times 2\pi r$$

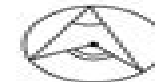
$$\text{Sector area} = \frac{\theta}{360} \times \pi r^2$$

$$\text{Segment area} = \text{Sector} - \text{Triangle}$$

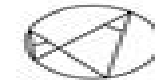


(b) circle theorems

(i) Angle subtended at the centre = $2 \times$ angle subtended at the circumference by the same arc



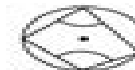
(ii) Angles in the same segment are equal



(iii) Angle in a semicircle = 90°



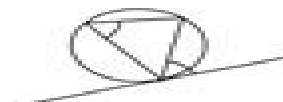
(iv) Opposite angles of a cyclic quadrilateral add up to 180°



(v) Exterior angle of a cyclic quadrilateral = interior opposite



(vi) Alternate segment theorem: the angle between tangent and side = interior opposite



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