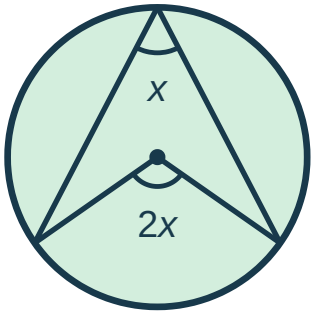
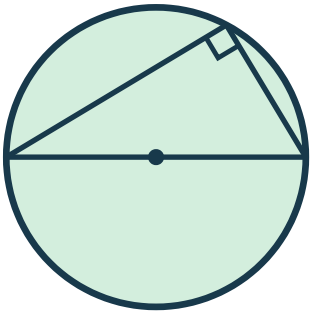
Circle Theorems

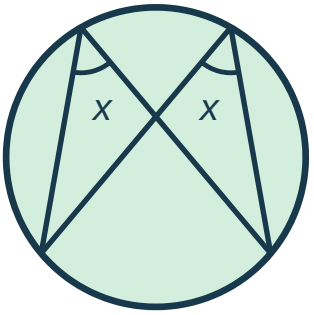
GCSE Maths (Higher): the facts to learn, which are also the reasons to write



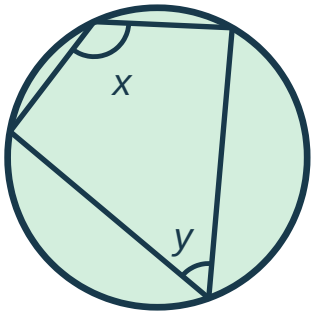
The angle at the centre is twice the angle at the circumference



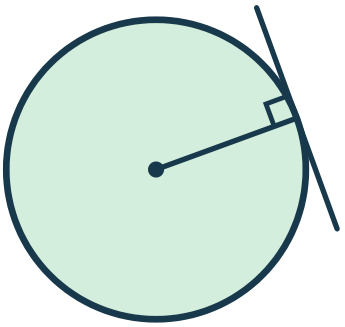
Angles in a semicircle are 90°



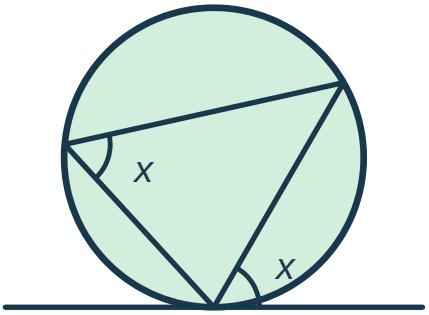
Angles in the same segment are equal



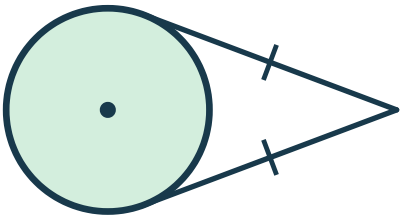
Opposite angles of a cyclic quadrilateral add up to 180°



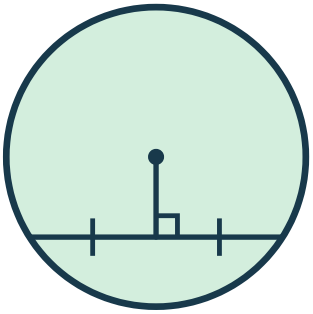
The tangent to a circle is perpendicular to the radius



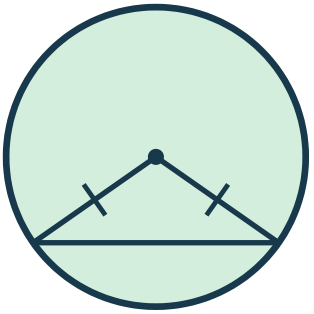
Alternate segment theorem (marked angles are equal)



Tangents from a point are equal in length



The perpendicular from the centre bisects the chord



Two radii make an isosceles triangle