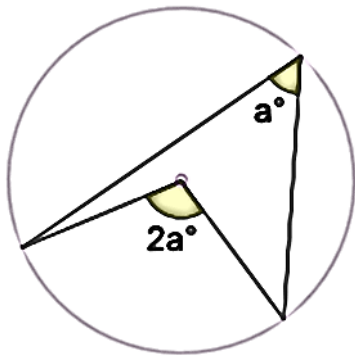




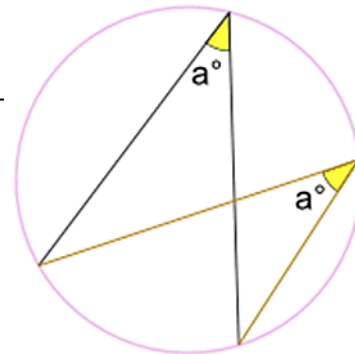
Matteman

MYP MATHEMATICS

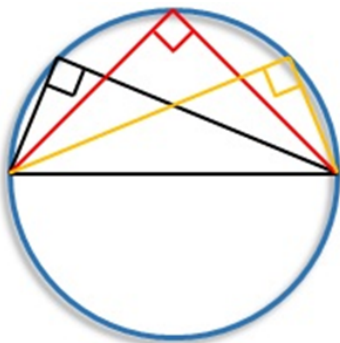
CIRCLE THEOREMS



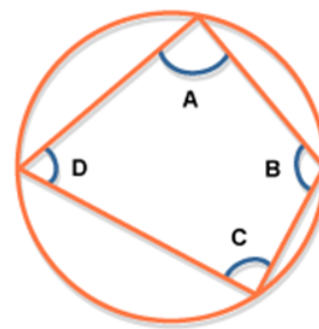
An angle on the circumference is half of the angle at the centre which is subtended by the same arc.



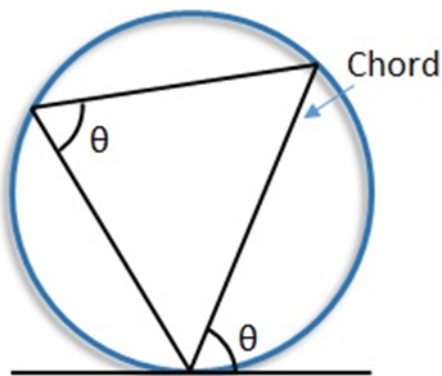
Angles subtended by same arc (both angles are on the circumference).



An angle inscribed in a semicircle is always a right angle. (Opposite to diameter)

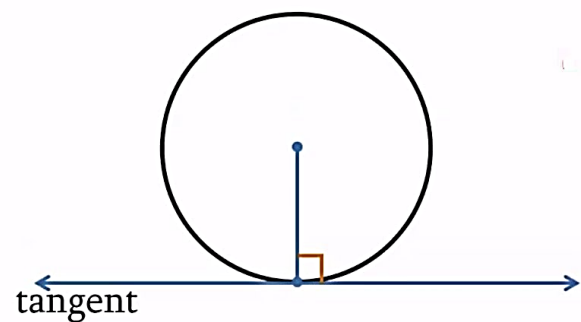


A Cyclic Quadrilateral's opposite angles add to 180° ($A+C=B+D=180^\circ$)

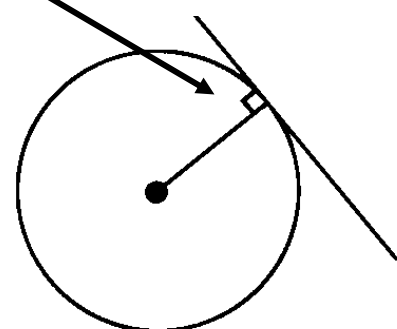
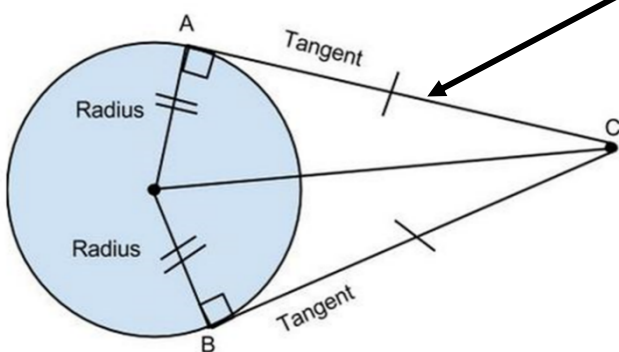


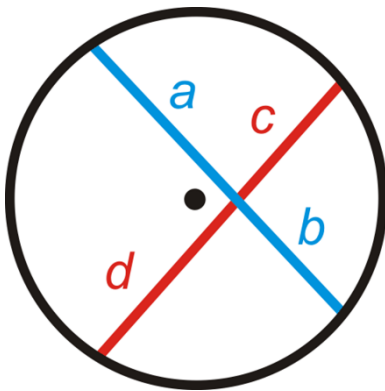
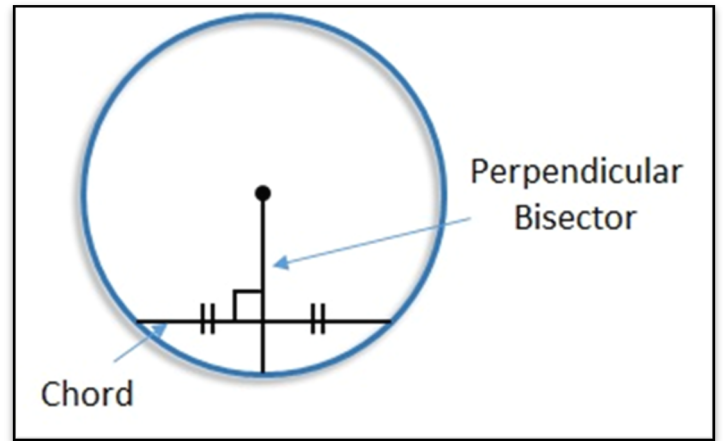
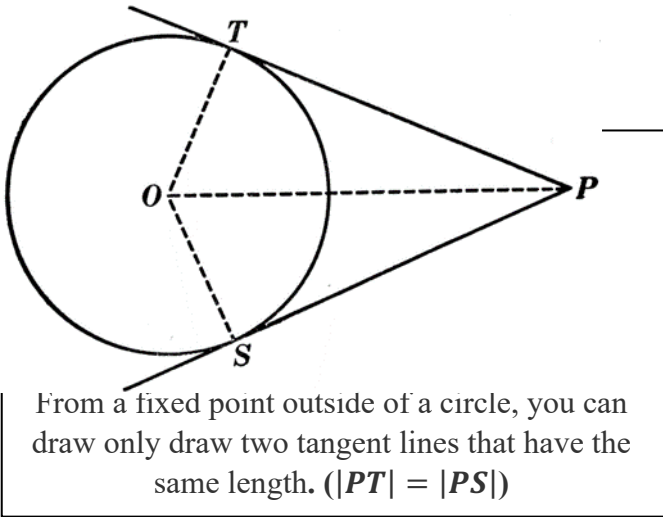
Tangent

Alternate segment



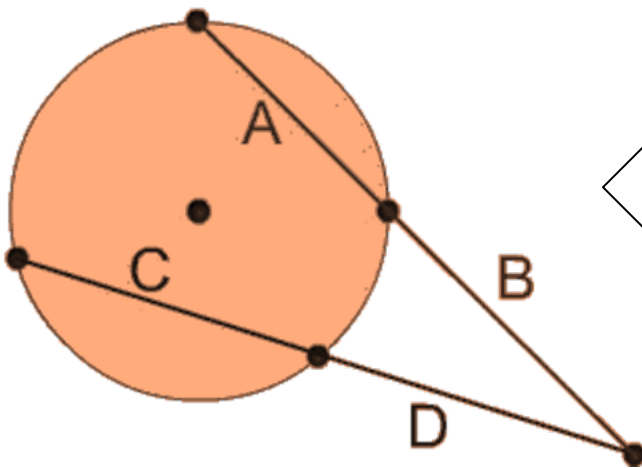
A tangent is a line that just touches a circle at one point. Tangent line meets the radius with 90° angle.





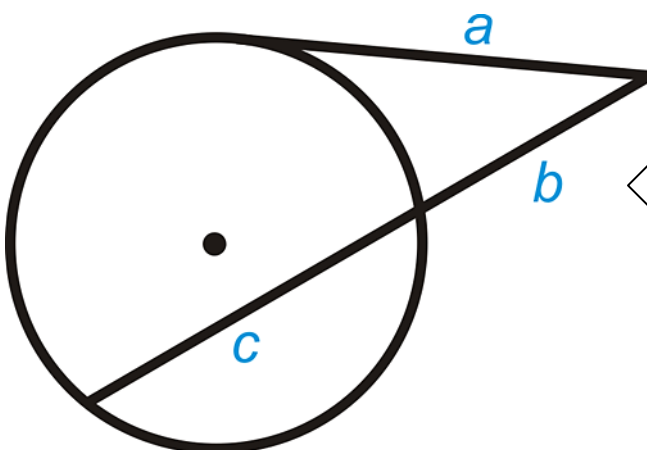
Intersecting chords

$$a \times b = c \times d$$



Intersecting secant lines

$$B \times (A + B) = D \times (C + D)$$



A secant line and a tangent line

$$a^2 = b \times (b + c)$$