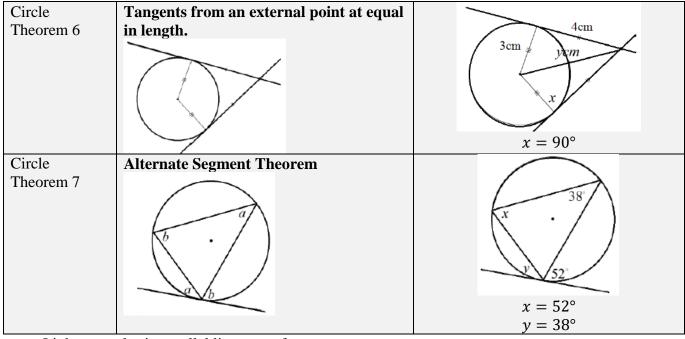
STM Knowledge Organiser Year: 11 Subject: Maths Topic: Circle Theorems

Core Knowledge

<u>Core Know</u> Topic/Skill	ledge Definition/Tips	Example
Circle	Angles in a semi-circle have a right angle	Example
Theorem 1	at the circumference.	$y = 90^{\circ}$ $x = 180 - 90 - 38 = 52^{\circ}$
Circle Theorem 2	Opposite angles in a cyclic quadrilateral add up to 180° . $a + c = 180^{\circ}$ $b + d = 180^{\circ}$	$x = 180 - 83 = 97^{\circ}$ $y = 180 - 92 = 88^{\circ}$
Circle Theorem 3	The angle at the centre is twice the angle at the circumference.	$x = 104 \div 2 = 52^{\circ}$
Circle Theorem 4	Angles in the same segment are equal.	$x = 42^{\circ}$ $y = 31^{\circ}$
Circle Theorem 5	A tangent is perpendicular to the radius at the point of contact.	y = 5cm (Pythagoras' Theorem)

STM Knowledge Organiser Year: 11 Subject: Maths

Core Knowledge



Links to angles in parallel lines, proof