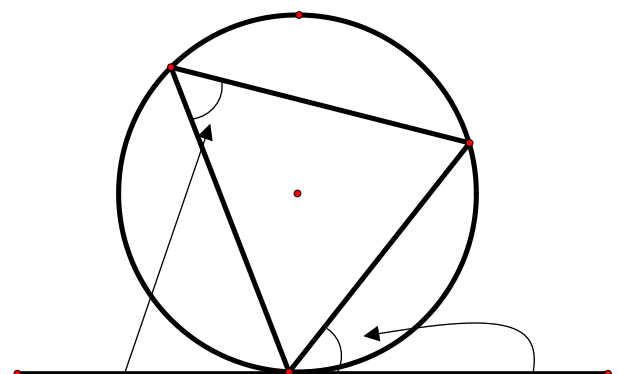
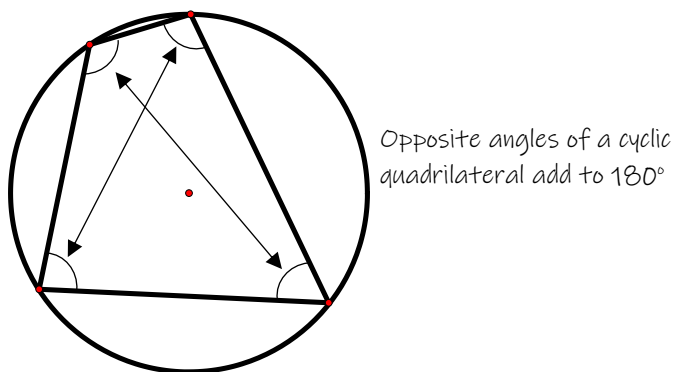
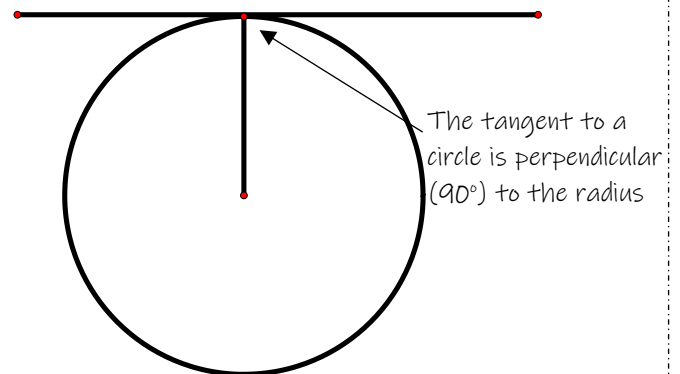
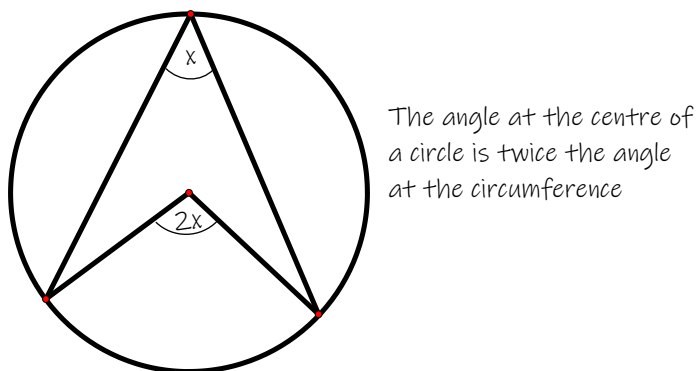
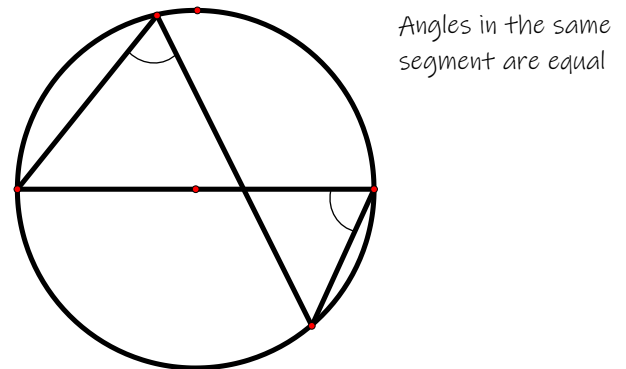
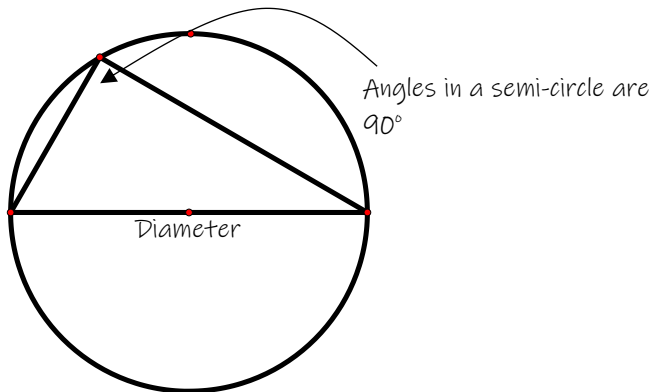


# Y10 Maths Knowledge Organiser Higher Tier: Properties of Circles

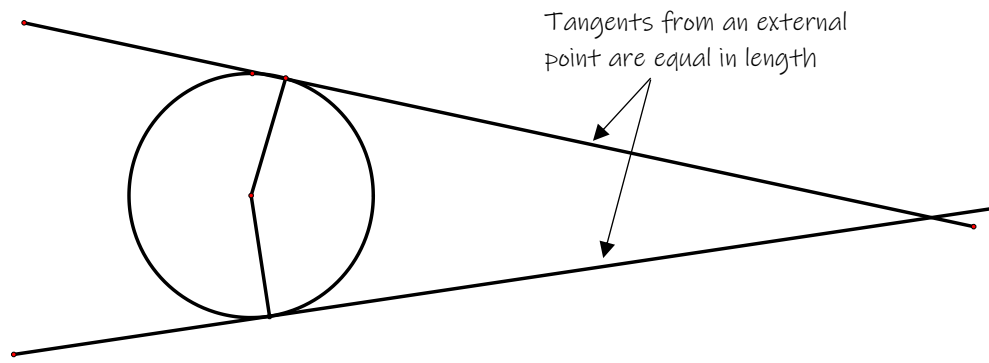
What must I be able to do?	Key vocabulary	
<b>New content:</b> <ul style="list-style-type: none"> <li>□ Use properties of tangents and angles in circles                             <ul style="list-style-type: none"> <li>➤ Mathswatch 183 (GCSE)</li> </ul> </li> <li>□ Prove standard circle theorems                             <ul style="list-style-type: none"> <li>➤ Mathswatch 184 (GCSE)</li> </ul> </li> </ul>	<b>Tangent</b>	A straight line which <u>touches a circle</u> at only <u>one point</u> .
	<b>Cyclic Quadrilateral</b>	A quadrilateral with <u>all 4 vertices</u> on the <u>circumference</u> of a circle.

## Circle Theorems

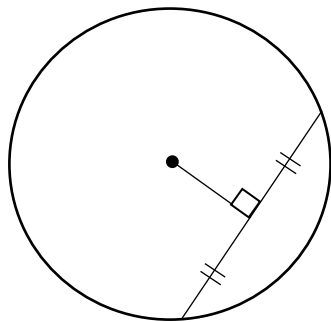
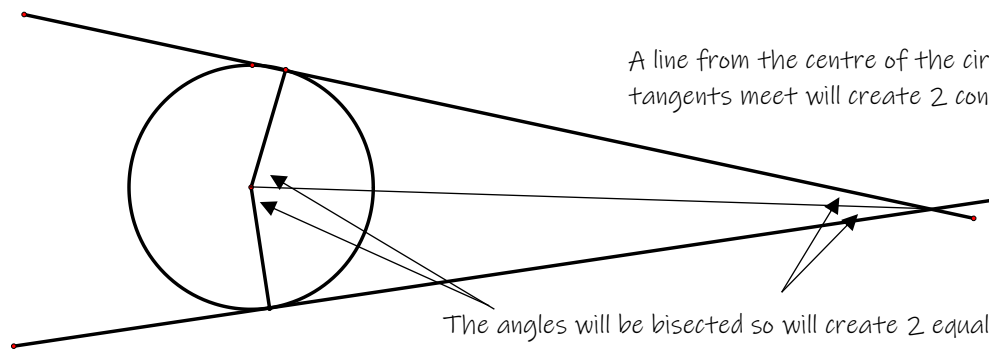


(The angle in the alternate segment is equal to the angle between the chord and the tangent)

Circle theorems continued.



Other useful facts



If a radius meets a chord at  $90^\circ$  it will bisect the chord and vice versa.

**GLUE HERE**