

$\triangle OAC$  is  
isosceles.

$$\hat{O}CB = \hat{O}AB$$

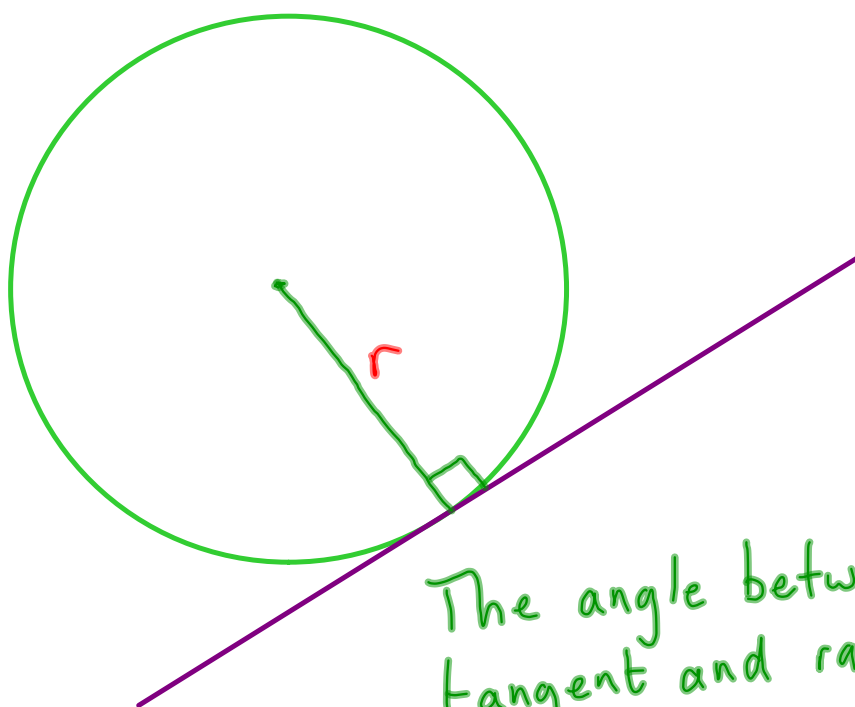
$$\hat{C}OB = \hat{A}OB$$

$\triangle OBC$  is identical  
to  $\triangle OAB$

$$AB = BC$$

If a radius is perpendicular to a chord, it also bisects the chord.

If a radius bisects a chord, it also crosses it at right angles.



The angle between a tangent and radius at the contact point is  $90^\circ$