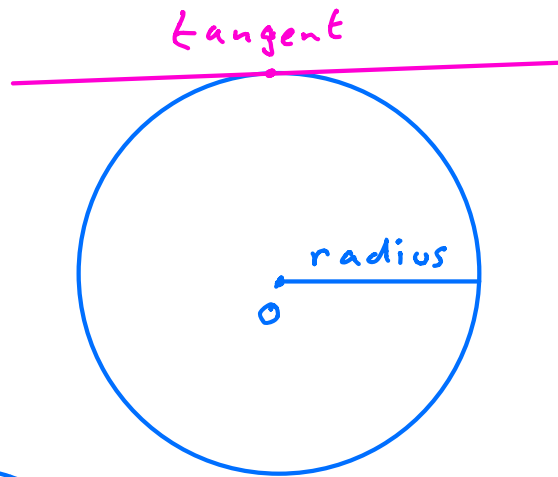
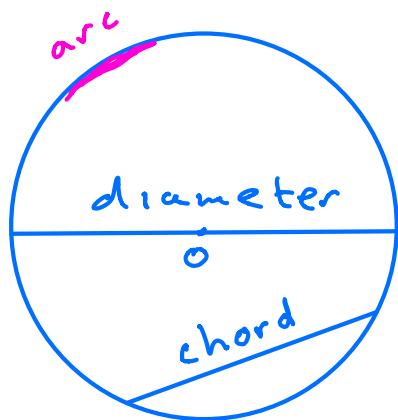
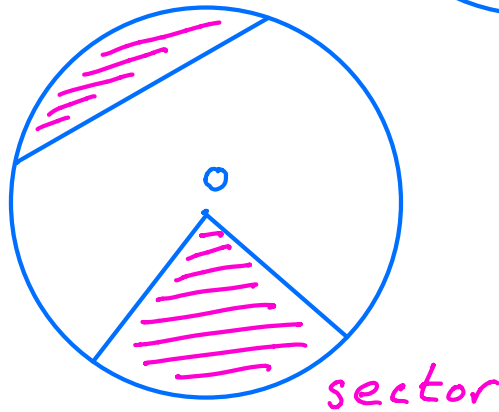


# Intro to Circle Theorems

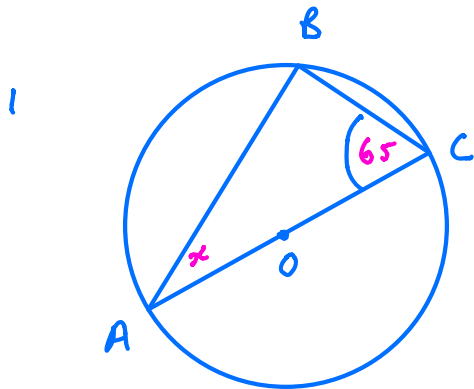


Segment



Exercis

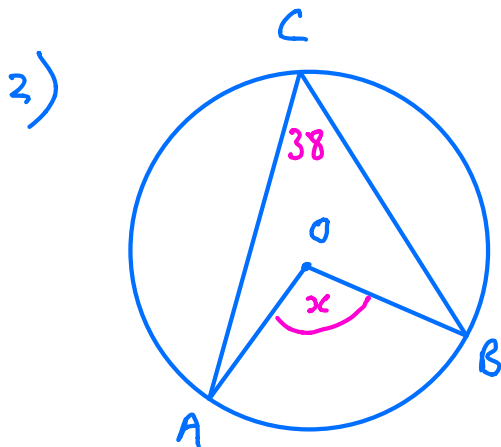
Find  $x$  giving reasons



$$\angle ABC = 90^\circ \quad (\angle \text{ in a semi-circle})$$

$$x = 90 - 65$$

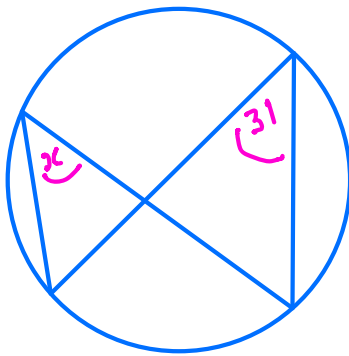
$$x = 25^\circ$$



$$x = 76^\circ$$

$\angle$  at centre twice  $\angle$  at circ

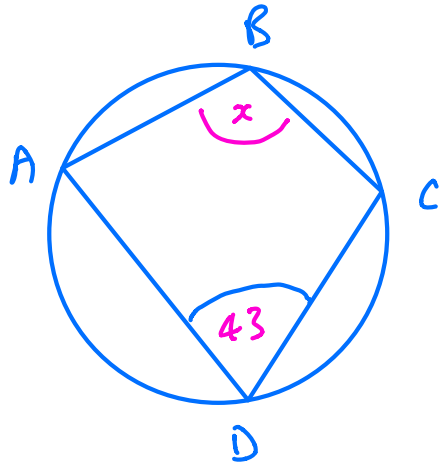
3)



$$x = 31^\circ$$

$\angle$ s in same segment are equal

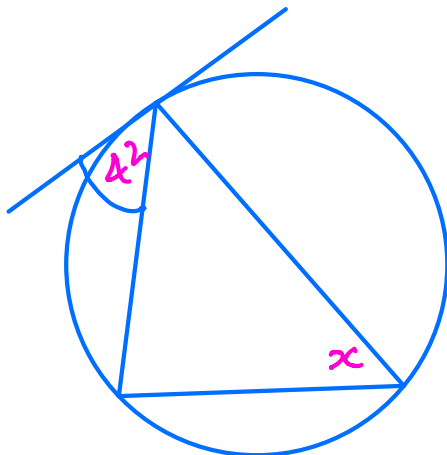
4)



$$x = 137^\circ$$

opp  $\angle$ s of cyclic quad  
add up to  $180^\circ$

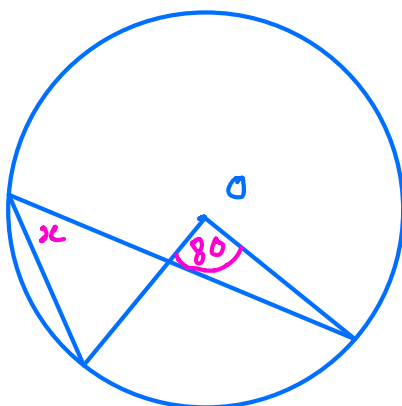
5)



$$x = 42^\circ$$

Alternate segment theorem

6)



$$x = 40^\circ$$

$\angle$  at centre twice  
 $\angle$  at circ