




Activity 16

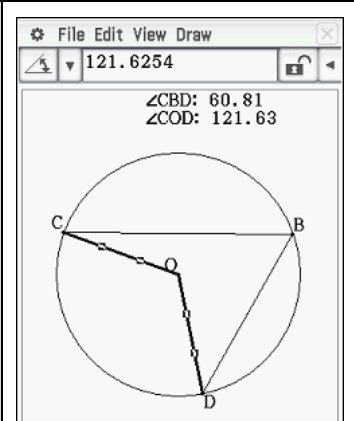
Angles subtended by the same arc

Aim: Verify and prove angles on the same arc theorem.

Open the saved diagram from the activity *Angle at the centre*.

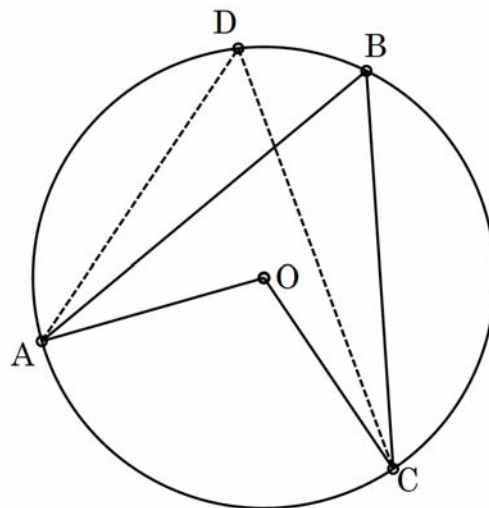
Constrain the centre and radius

- Tap the centre point O
- Tap  to go round the corner
- With co-ordinates $\begin{matrix} x & y \\ \square & \square \end{matrix}$ selected in the Measure dropdown menu, tap  to lock the position
- Tap in open space
- Tap to select the circle
- Tap  to lock the radius



1. Drag point B around the circle. What do you notice about the size of $\angle CBD$?
2. For what positions of B on the circle are the ClassPad measurements contradictory?

3. Complete the proof that angles at the circumference subtended by the same arc are equal.
I.e. prove $\angle ABC = \angle ADC$



Statement	Reason
Let $\angle ABC = \alpha$	
$\angle AOC =$	(i) _____
$\angle ADC =$	(ii) _____.