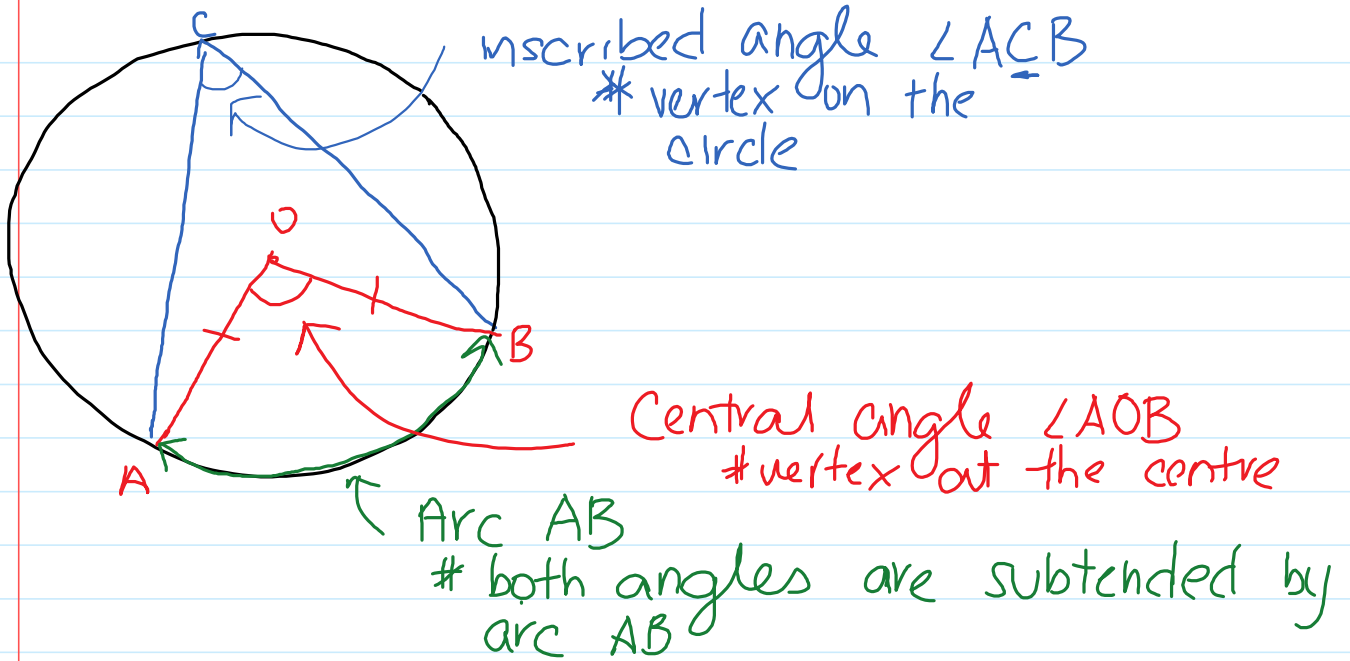


# 8.3 Properties of Angles in a Circle

June 11, 2015 9:19 AM

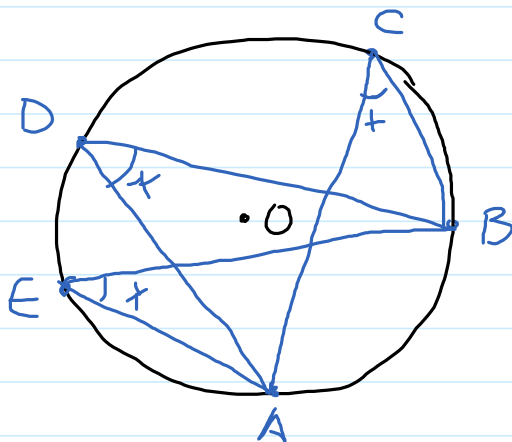


## Central Angle = Inscribed Angle Property

- the measure of the central angle is twice the measure of an inscribed angle subtended by the same arc

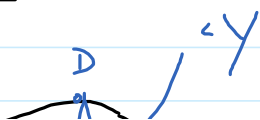
## Inscribed Angles Property

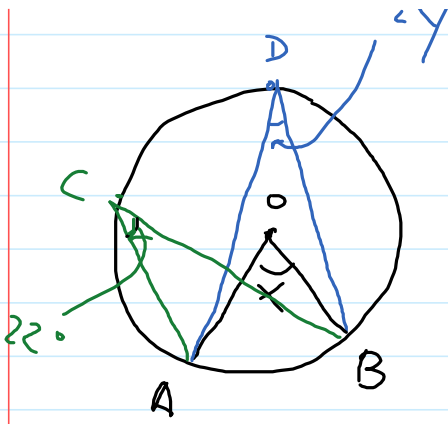
Inscribed angles subtended by the same arc are equal



$$\begin{aligned} \angle ACB &= \angle ADB = \angle AEB \\ \downarrow & \quad \downarrow \quad \downarrow \\ \angle C &= \angle D = \angle E \end{aligned}$$

Ex #1



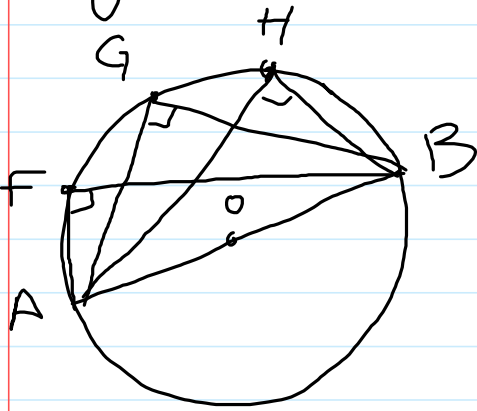


$\angle X ?$     $\angle Y ?$

$44^\circ$

$22^\circ$

## Angles in a Semicircle Property



Inscribed angles subtended by a semicircle are right angles

$= 90^\circ$

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