8.3 Properties of Angles in a Circle

ascribed angle $\angle A C B$

* vertex on the circle

Central angle $\angle A O B$ *vertex at the centre
Arc AB
\# both angles are subtended by $\operatorname{arc} A B$
Central Angle : Inscribed Angle Property

- the measure of the central angle is terce the measure of an inscribect angle subtended by the same arc
Inscribed Angles Property
linscnbed angles subtended by the same arc are equal


$$
\begin{aligned}
\angle A C B & =\angle A D B=\angle A E B \\
\angle C & =\angle D=\angle E
\end{aligned}
$$

Ex ${ }^{\# 1}$

$$
\underbrace{D}_{-1} /{ }^{c y}
$$



$$
\begin{array}{cc}
\angle X^{\prime} \quad \angle y^{\prime} \\
\swarrow & \downarrow \\
44^{\circ} \quad & 22^{\circ}
\end{array}
$$

$\frac{\text { Angles in a semicircle Property }}{H}$


Inscribe angles subtended by a semoelrcle are right angles

$$
=90^{\circ}
$$

$$
p g 411 \# 3-6,11
$$

