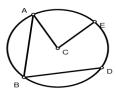
12-3 Study Guide – Inscribed Angles

❖ An angle is inscribed if its vertex is on the circle and its sides contain chords of the circle.

∠_____ is an inscribed angle.



If an angle is inscribed in a circle, then the measure of the angle equals one-half the measure of its intercepted arc.

∠ABC intercepts ____

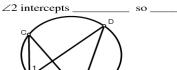
If m $AC = 100^{\circ}$ then m $\angle ABC =$ _____.

If $m\angle ABC = 70^{\circ}$, then mAC =_____

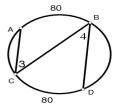
If two inscribed angles of a circle or congruent circles intercept congruent arcs or the same arc, then the angles are congruent.

∠1 intercepts _____

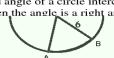
∠3 intercepts _____; ∠4 intercepts _____



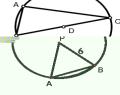
Since mAB = mCD, ____



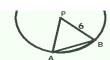
If an inscribed angle of a circle intercepts a semicircle, then the angle is a right angle



 $\frac{60}{360}\pi6^{2}$



 $\frac{6^2 \sqrt{3}}{4}$



 $6\pi - 9\sqrt{3}$ units²