Inscribed Angles

Inscribed angles exploration.

Definition 1. *In a circle, a* ***central angle*** *has the center of the circle as its vertex. An* ***inscribed angle*** *has a point on the circle as its vertex. An* ***arc*** *of a circle has both a measure and a length.* ***Arc measure*** *indicates an amount of turning (in degrees). An* ***arc length*** *is a distance.*

Geogebra link: `https://tube.geogebra.org/m/zrapvzpz`

Problem 1 (a) *Keeping points A and C fixed, when point B moves, $m\angle ABC$ (increases/ stays the same/ decreases/ varies widely).*

(b) *The arc measure is (equal to ✓/ half/ double/ unrelated to) the measure of the corresponding central angle.*

(c) *The measure of an inscribed angle is (equal to/ half ✓/ double/ unrelated to) the measure of the corresponding central angle.*

(d) *The measure of an inscribed angle is (equal to/ half ✓/ double/ unrelated to) the measure of the corresponding arc.*

Maybe some questions about visually estimating angle measures or arc measures.

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