Circle Geometry Unit

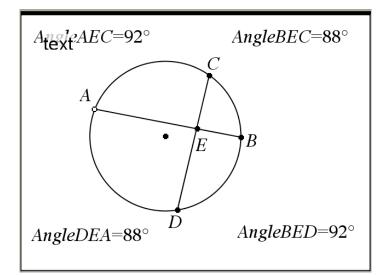
Angles formed by Intersecting

Arcs

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When two chords intersect within the circle, angles are formed.

On the next page, chords AB and CD intersect at point E. Drag point A along the circumference of the circle. Notice the change in measures of the angles formed by the intersecting chords.



Question

Why do the measurements not exist when point A is in certain locations?

Answer

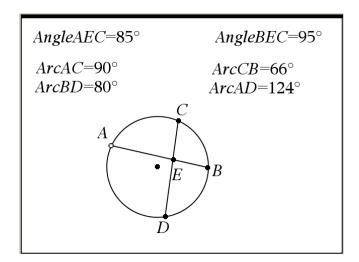


There exists a rule connecting the measure of the angles formed by the intersecting chords and the intercepted arcs.

On the next page, there will be measurements of the intercepted arcs and the angles formed by the intersecting chords. Drag point A to try to discover the rule.

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Question

What is the relationship between the intercepted arcs and the angles formed by the intersecting chords?

Answer

