

Geometry 10-6 Secants, Tangents, and Angle Measures

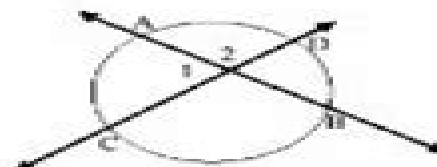
A. Intersections on or inside a circle.

1. A line that intersects a circle in exactly two points is called a _____.
- A secant of a circle contains a chord of the circle.

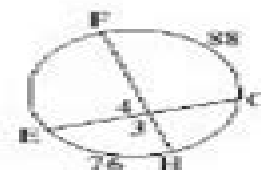
2. Theorem 10-12 – If two secants intersect in the interior of a circle, then the measure of an angle formed is one-half the sum of the measures of the arcs intercepted by the angle and its vertical angle.

$$\text{Examples: } m\angle 1 = \frac{m\widehat{AC} + m\widehat{DB}}{2}$$

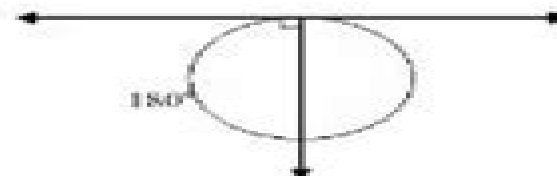
$$m\angle 2 = \frac{m\widehat{AD} + m\widehat{BC}}{2}$$



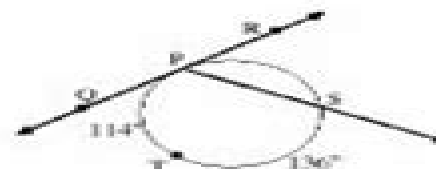
Ex. 1: Find $m\angle 4$ if $m\widehat{FG} = 88$ and $m\widehat{EH} = 76$



3. Theorem 10-13 – If a secant and a tangent intersect at the point of tangency, then the measure of each angle formed is _____ the measure of its intercepted arc.



Ex. 2: Find $m\angle RPS$ if $m\widehat{PT} = 114^\circ$ and $m\widehat{TS} = 136^\circ$



Geometry Answers Secant Angles

Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Geometry Answers Secant Angles:

Reviewing **Geometry Answers Secant Angles**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Geometry Answers Secant Angles**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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