Lesson 10.5 Practice: Angles Formed by Chords, Secants and Tangents

School Launch · Geometry · Unit 10: Circles · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Two chords intersect inside a circle. The intercepted arcs measure $88°$ and $46°$. Find the angle formed. EASY

2. Two chords intersect inside a circle. The intercepted arcs measure $132°$ and $28°$. Find the angle formed. EASY

3. Two chords intersect inside a circle. The intercepted arcs measure $93°$ and $87°$. Find the angle formed. EASY

4. Two chords intersect inside a circle. The intercepted arcs measure $62°$ and $45°$. Find the angle formed. MEDIUM

5. Two chords intersect inside a circle. The intercepted arcs measure $49°$ and $43°$. Find the angle formed. MEDIUM

6. Two chords intersect inside a circle. The intercepted arcs measure $93°$ and $72°$. Find the angle formed. MEDIUM

7. Two chords intersect inside a circle. The intercepted arcs measure $51°$ and $51°$. Find the angle formed. MEDIUM

8. Two chords intersect inside a circle. The intercepted arcs measure $86°$ and $37°$. Find the angle formed. HARD

9. Two secants meet outside a circle, intercepting arcs of $94°$ and $75°$. Find the angle between them. HARD

10. Two secants meet outside a circle, intercepting arcs of $94°$ and $34°$. Find the angle between them. HARD