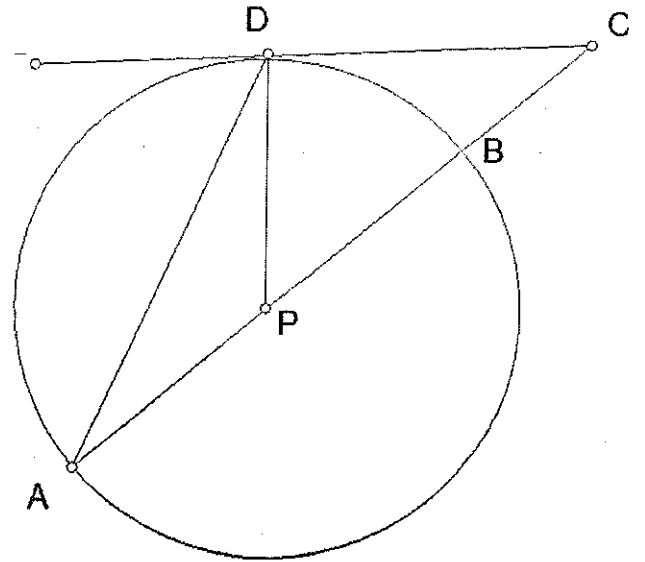


Geometry
 Quiz Review: Circle Vocab and Central/Inscribed Angles

Name: Key
 Date: _____

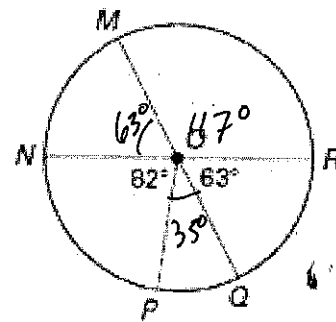
Refer to the figure at the right for questions 1-8.



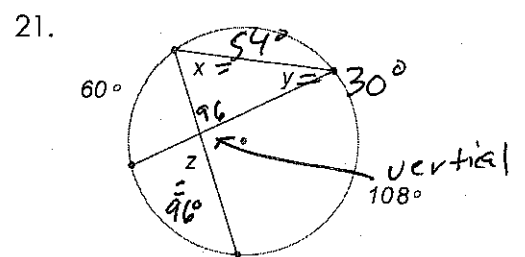
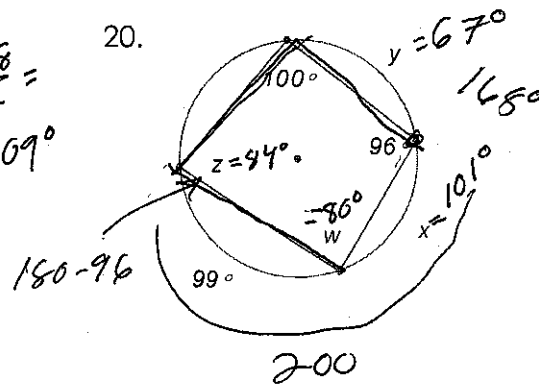
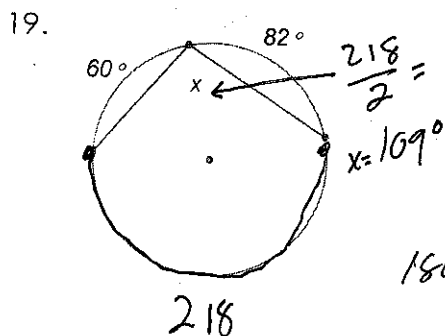
- Name three radii of the circle. \overline{PB} , \overline{AP} , \overline{PD}
- Name a diameter. \overline{AD}
- Name two chords. \overline{AB} , \overline{BC}
- Name a segment tangent to $\odot P$. \overline{CD}
- Name a segment that is a secant of $\odot P$ and contains a diameter. \overline{AC}
- Name a point in the interior of the circle. P
- Name three points that lie on the circle. D, B, A
- If $AP = 4$ in., find AB .
 8 in.

For #9-18, write the measures in the blanks provided.

- | | | | |
|-------------|----------------------|-------------|----------------------|
| <u>63°</u> | 9. $m\widehat{MN}$ | <u>117°</u> | 10. $m\widehat{NQ}$ |
| <u>180°</u> | 11. $m\widehat{NQR}$ | <u>145°</u> | 12. $m\widehat{MRP}$ |
| <u>63°</u> | 13. $m\widehat{QR}$ | <u>47°</u> | 14. $m\widehat{MR}$ |
| <u>297°</u> | 15. $m\widehat{QMR}$ | <u>35°</u> | 16. $m\widehat{PQ}$ |
| <u>278°</u> | 17. $m\widehat{PRN}$ | <u>297°</u> | 18. $m\widehat{MQN}$ |

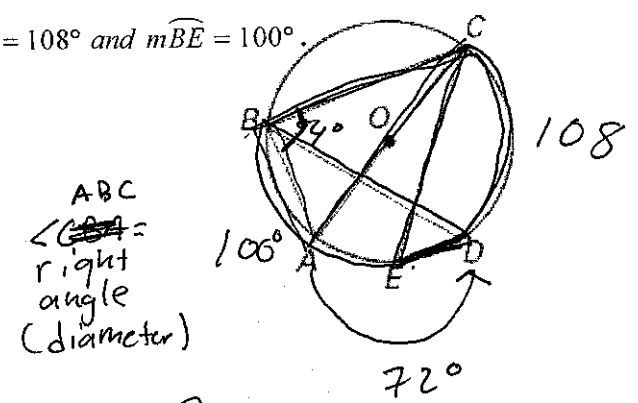


Find the value of the variables.

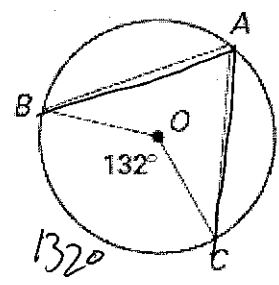


Find the measure of the arc or angle in $\odot O$, given $m\widehat{CD} = 108^\circ$ and $m\widehat{BE} = 100^\circ$.

- $\frac{90^\circ}{2} = 45^\circ$ 22. $m\angle ABC$ $\frac{108}{2} = 54^\circ$ 23. $m\angle CED$
 $\frac{100}{2} = 50^\circ$ 24. $m\angle BDE$ $\frac{108}{2} = 54^\circ$ 25. $m\angle CBD$
 $90 - 54 = 36^\circ$ 26. $m\angle ABD$ $\frac{100}{2} = 50^\circ$ 27. $m\angle BCE$
 72° 28. $m\widehat{AD}$ 180° 29. $m\widehat{ABC}$

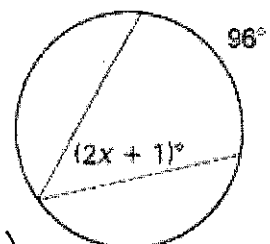


66° 30. Find $m\angle BAC$



Find the value of x.

$x = 23.5$ 31.



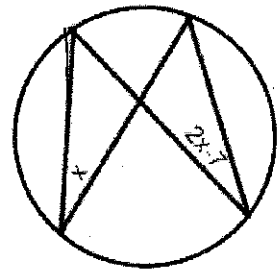
$$2(2x + 1) = 96$$

$$4x + 2 = 96$$

$$\frac{4x}{4} = \frac{94}{4}$$

$$x = 23.5$$

$x = 7$ 32.



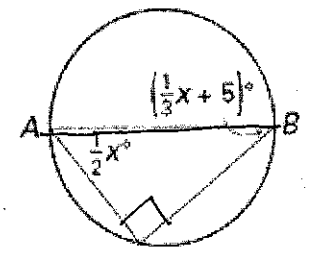
$$x = 2x - 7$$

$$-2x + 2x = -7$$

$$-x = -7$$

$$x = 7$$

102° 33. \overline{AB} is a diameter.



$$\frac{1}{2}x + \frac{1}{3}x + 5 + 90 = 180$$

$$\frac{5}{6}x + 95 = 180$$

$$\frac{5}{6}x = 85$$

$$x = 85 \cdot \frac{6}{5} = 102$$

In $\odot A$, \overline{HE} is a diameter.

\widehat{HC} 34. Name the intercepted arc for $\angle HTC$.

$2 \cdot 52 = 104^\circ$ 35. If $m\angle HTC = 52^\circ$, find $m\widehat{CH}$.

\widehat{TH} 36. Name the intercepted arc for $\angle TCH$.

90° 37. Find $m\angle ECH$.

$90 - 52 = 38^\circ$ 38. If $m\angle HTC = 52^\circ$, find $m\angle CEH$.

$\angle CEU, \angle CHT, \angle EUH$, etc. 39. Name an inscribed angle.

$360 - 104 = 256^\circ$ 40. If $m\angle HTC = 52^\circ$, find $m\widehat{CEH}$.

