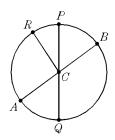
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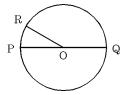
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1. For each of the following arcs, state whether it is a major arc, a minor arc, or a semicircle or C.

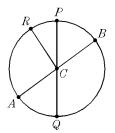


- a) \widehat{BRA}
- b) \widehat{BQ}
- c) \widehat{AR}
- d) \widehat{BAR}

2. Given the circle with center O and with $m \angle ROQ = 160^{\circ}$, find the measure of minor arc \widehat{PR} .

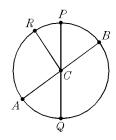


3. In circle C, \overline{AB} and \overline{PQ} are diameters, $m \angle BCP = 52$, and $m \angle ACR = 93$. Find the following measures.



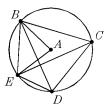
- a) *m∠ACQ*
- b) *m∠BCQ*
- c) *m∠RCP*
- d) $m\widehat{AQ}$
- e) \widehat{mABR}

4. In circle C, \overline{AB} and \overline{PQ} are diameters, $m \angle BCP = 49$, and $m \angle ACR = 92$. Find the following measures.

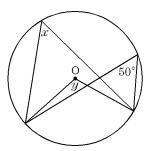


- a) \widehat{mABR}
- b) $m\widehat{AQ}$
- c) *m∠ACQ*
- d) *m∠RCP*
- e) *m∠BCQ*

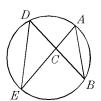
5. In circle A, $\widehat{mBE} = 84$. Find $m \angle BAE + m \angle BCE$.



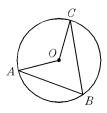
6. In the given diagram, *O* is the center of the circle. Find the values of *x* and *y*.



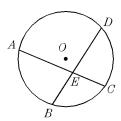
7. In the diagram, $m \angle CAB = 35$ and $m \angle ACB = 95$. What are the measures of angles $\angle EDC$ and $\angle DEC$, respectively?



8. In the diagram, \overline{AO} and \overline{OC} are radii of circle O and \overline{AB} and \overline{BC} are chords. If $m \angle ABC = 55$, what is the measure of central angle $\angle AOC$?

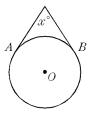


9. In the diagram, two chords of circle O, \overline{AC} and \overline{BD} , intersect at E. $m\widehat{AB} = 88$ and $m\widehat{DC} = 62$. What is the measure of $\angle AEB$?

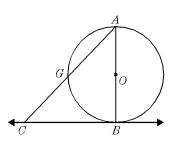


10. In the diagram, two chords of circle O, \overline{AC} and \overline{BD} , intersect at E. $m\angle AEB = 80$ and $\widehat{mCD} = 94$. What is the measure of \widehat{AB} ?

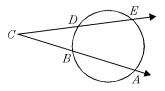
11. In the diagram, solve for x if $m\widehat{AB} = 100$?



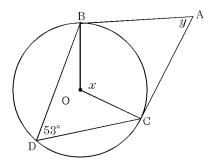
12. In the diagram, \overrightarrow{BC} is a tangent to $\bigcirc O$ at point B and $m \angle ACB = 42$. What is the measure of \widehat{BG} ?



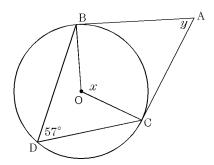
13. In the diagram, $\widehat{mDB} = 32$ and $\widehat{mEA} = 88$. What is the measure of $\angle ECA$?



14. Find x and y.



15. Find x and y.



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Module 15-Circles Review 10/17/2019

1. Answer: semicircle; minor; minor; major Points: 2. 20° Answer: Points: 3. Answer: 52; 128; 35; 52; 267 Points: 4. 268; 49; 49; 39; 131 Answer: Points: 5. 126 Answer: Points: 1 6. Answer: $x = 50^{\circ}, y = 100^{\circ}$ Points: 7. 35°, 60° Answer: Points: 8. Answer: 110° Points: 9. 75° Answer: Points: 1 10. 66° Answer: Points: 11. 80° Answer: Points: 12. 96° Answer: Points: 13. 28° Answer: Points: 14. Answer: $x = 106^{\circ}, y = 74^{\circ}$ Points: 15. $x = 114^{\circ}, y = 66^{\circ}$ Answer:

Points: