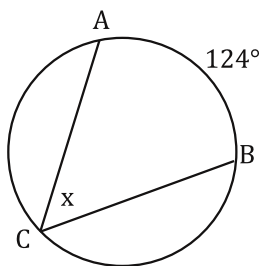
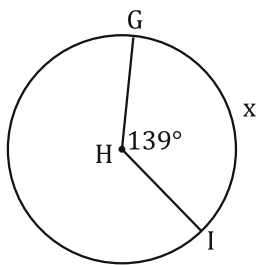


For these... find the value of  $x$ . Show all your work...

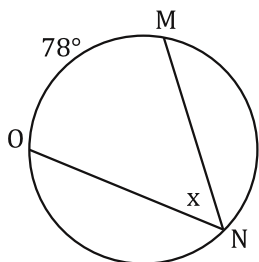
1.



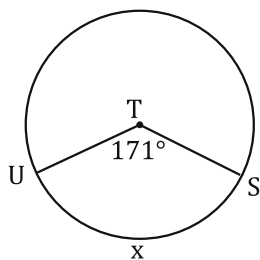
3.



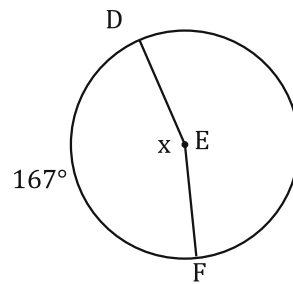
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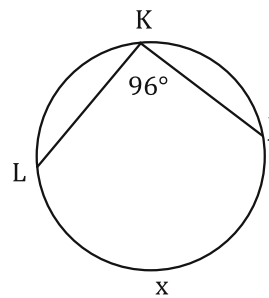
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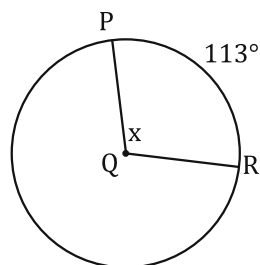
2.



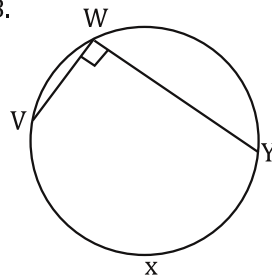
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6.



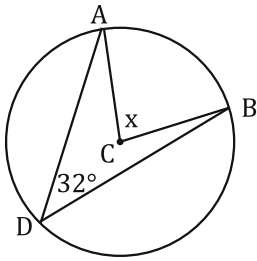
8.



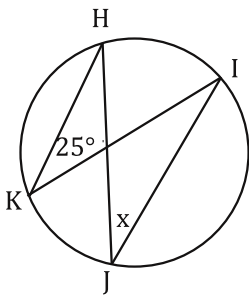
Bubble all the correct answers from above. Don't bubble incorrect answers.

☐ 352° ☐ 90° ☐ 39° ☐ 171° ☐ 192° ☐ 124° ☐ 69.5° ☐ 180° ☐ 139° ☐ 83.5° ☐ 226° ☐ 113° ☐ 167° ☐ 62°

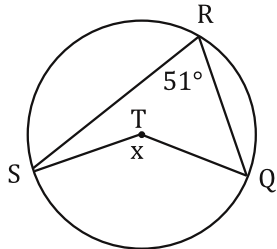
9.



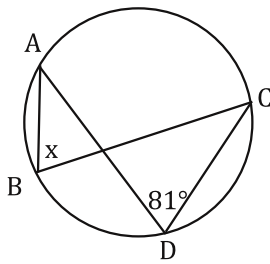
11.



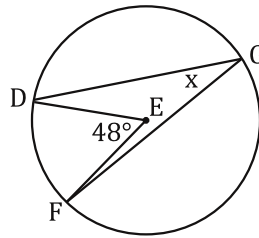
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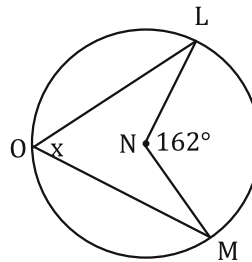
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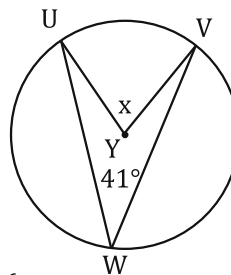
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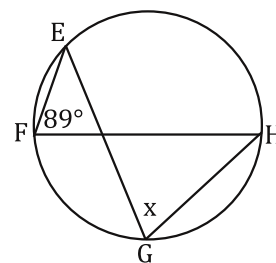
12.



14.



16.

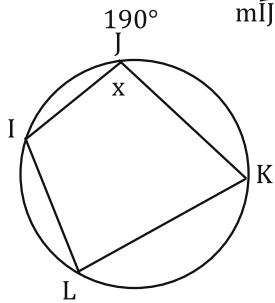


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Bubble all the correct answers from above. Don't bubble incorrect answers.

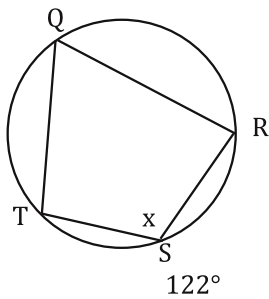
☐ 162° ☐ 102° ☐ 64° ☐ 25° ☐ 48° ☐ 81° ☐ 82° ☐ 41° ☐ 89° ☐ 81° ☐ 24° ☐ 162° ☐ 51° ☐ 131°

17.  $m\widehat{IJK} = 190^\circ$

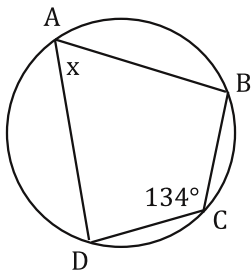


First find  $m\widehat{KLI}$ .  
 $m\widehat{IJK} + m\widehat{KLI} = 360^\circ$   
 $m\widehat{IJK} + m\widehat{KLI} = 360^\circ$   
 $190^\circ + m\widehat{KLI} = 360^\circ$   
 $-190^\circ \quad -190^\circ$   
 $m\widehat{KLI} = 170^\circ$   
 Then find  $m\angle J$ .  
 $m\angle J = \frac{1}{2}m\widehat{KLI}$   
 $x = \frac{1}{2}(170^\circ)$   
 $x = 85^\circ$

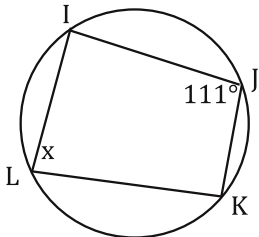
19.  $m\widehat{RST} = 122^\circ$



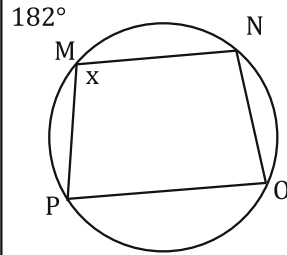
21.



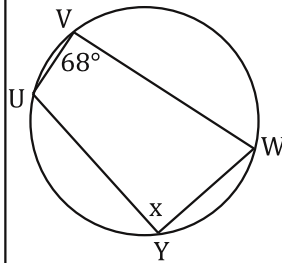
23.



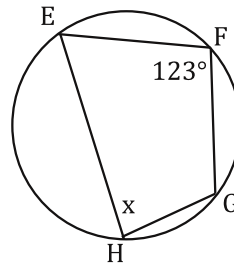
18.  $m\widehat{PMN} = 182^\circ$



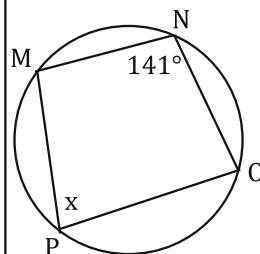
20. First find  $m\widehat{UYW}$ .



22.



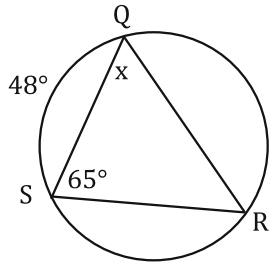
24.



Bubble all the correct answers from above. Don't bubble incorrect answers.

☐  $114^\circ$  ☐  $56^\circ$  ☐  $69^\circ$  ☐  $57^\circ$  ☐  $47^\circ$  ☐  $119^\circ$  ☐  $231^\circ$  ☐  $46^\circ$  ☐  $39^\circ$  ☐  $85^\circ$  ☐  $89^\circ$  ☐  $162^\circ$  ☐  $136^\circ$  ☐  $224^\circ$

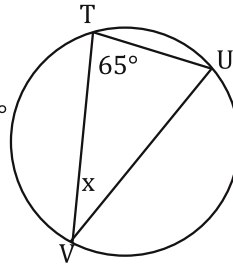
25.



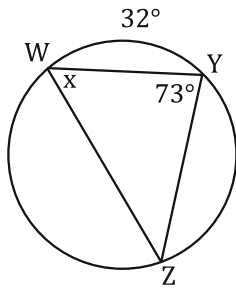
First find  $m\angle R$ .  
 $m\angle R = 1/2 m\widehat{QS}$   
 $m\angle R = 1/2 (48^\circ)$   
 $m\angle R = 24^\circ$   
 Then find  $m\angle Q$ .  
 Use the triangle sum theorem!

$$\begin{aligned} m\angle Q + m\angle R + m\angle S &= 180^\circ \\ x + 24^\circ + 65^\circ &= 180^\circ \\ x + 89^\circ &= 180^\circ \\ -89^\circ \quad -89^\circ & \\ x &= 91^\circ \end{aligned}$$

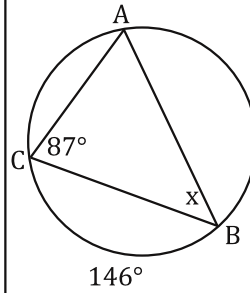
26.



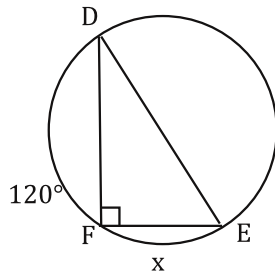
27.



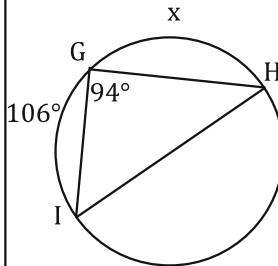
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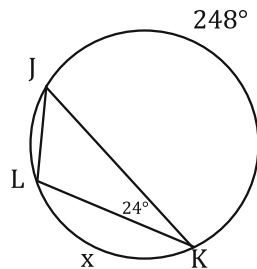
29.



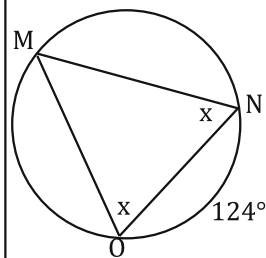
30.



31.



32.



Bubble all the correct answers from above. Don't bubble incorrect answers.

☐ 87° ☐ 46° ☐ 18° ☐ 94° ☐ 91° ☐ 20° ☐ 44° ☐ 66° ☐ 64° ☐ 16° ☐ 60° ☐ 46° ☐ 91° ☐ 78°