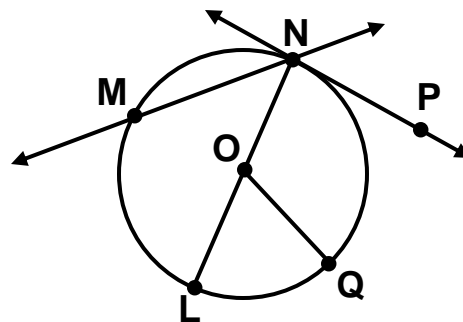


NAME _____ DATE _____ PER. _____

REVIEW #13: CIRCLES

PART 1 CIRCLE BASICS

Use circle O below to name each of the following.



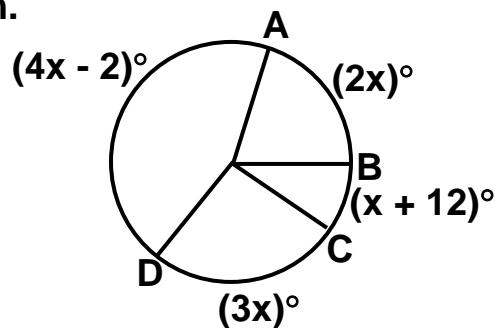
1. _____	The center.		
2. _____	All radii.		
3. _____	A diameter.		
4. _____	A secant.		
5. _____	A tangent.	6. _____	A point of tangency.
7. _____	A point in the interior.	8. _____	A point in the exterior.

PART 2 TANGENTS: Find the indicated values.

<p>9. $x =$ _____</p>	<p>10. $x =$ _____</p>
<p>11. $x =$ _____</p>	<p>12. $x =$ _____</p>
<p>13. $P =$ _____</p>	<p>Find the perimeter of the quadrilateral:</p>

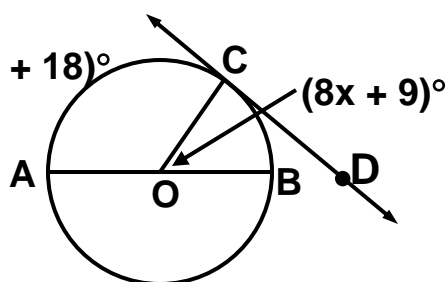
PART 3 ARCS & CENTRAL ANGLES: Using the figure below, find the measure of each of the following arcs and classify them.

14. _____; _____	\widehat{AC}
15. _____; _____	\widehat{BC}
16. _____; _____	\widehat{CD}
17. _____; _____	\widehat{ADC}



In the figure below, \overline{AB} is a diameter and \overline{CD} is a tangent to circle O. Find the measure of the following angles.

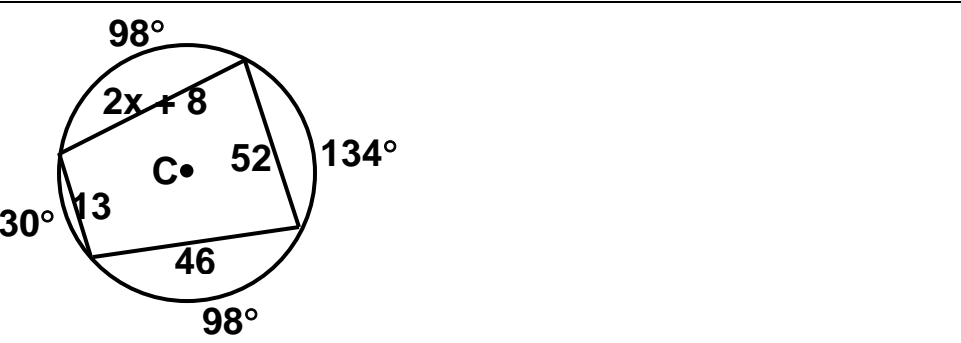
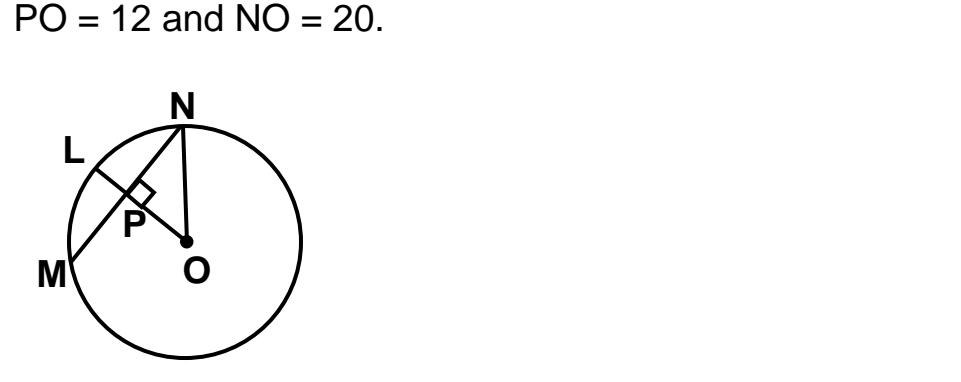
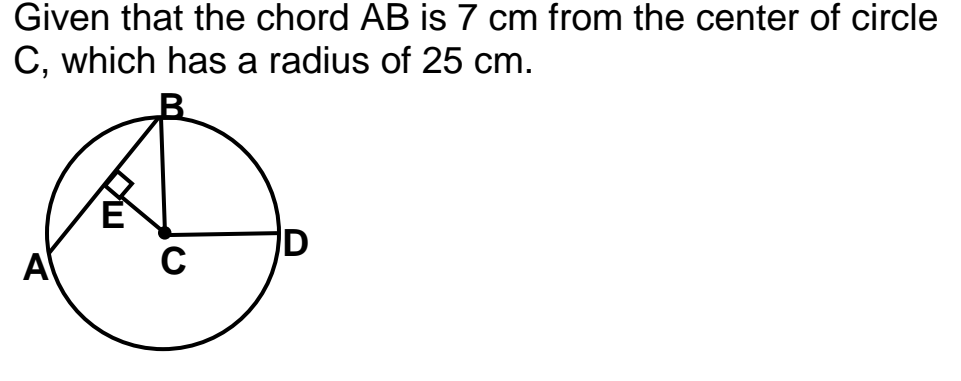
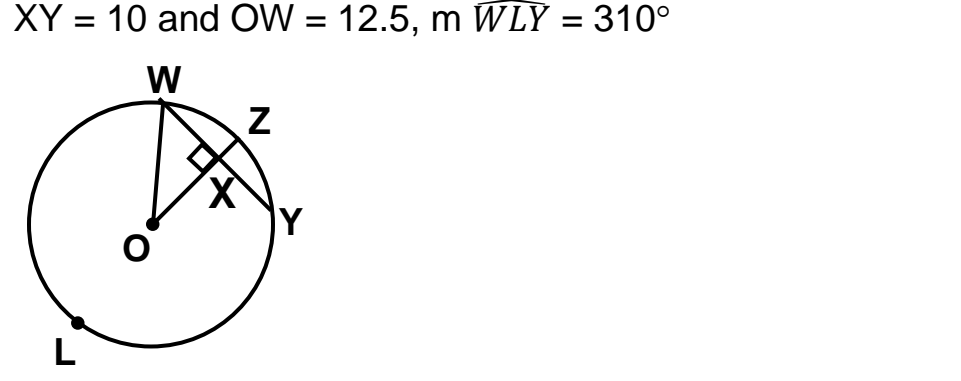

18. _____	$m\angle AOC = ?$
19. _____	$m\angle BOC = ?$
20. _____	$m\angle OCD = ?$



Find the indicated measure in each of the following.

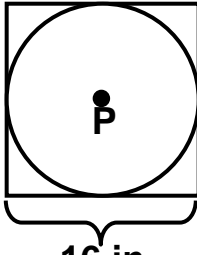
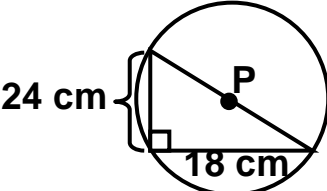
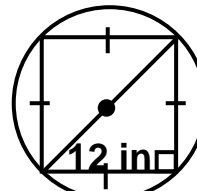
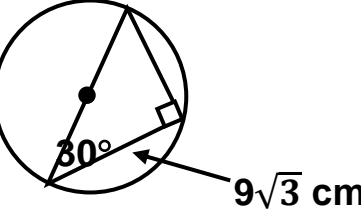
21. _____	In $\odot X$ the measure of $\widehat{EMA} = \underline{\hspace{2cm}}? \underline{\hspace{2cm}}$	
22. _____	In circle Y, \widehat{RS} and \widehat{RD} are congruent, adjacent arcs. If $m\widehat{RS} = 95^\circ$, find the measure of \widehat{SD} .	
23. _____	The measure of $\angle ETD = ?$	

PART 4 ARCS & CHORDS: Find the indicated measures.

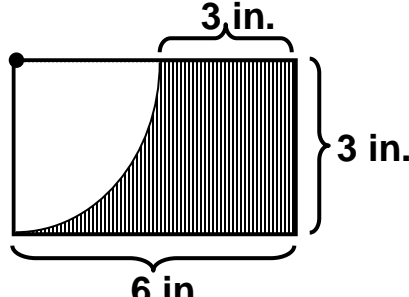
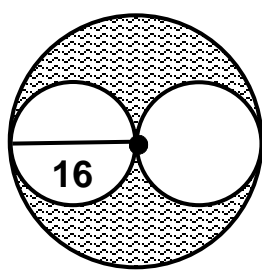
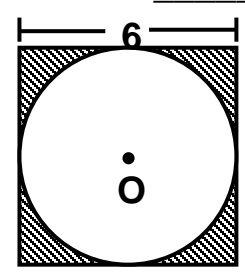
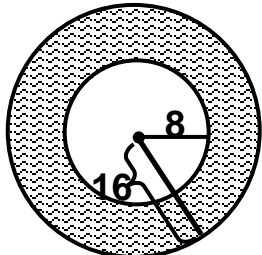
<p>24. $x =$ _____</p>	
<p>25. $PN =$ _____ $MP =$ _____ $LP =$ _____ $MN =$ _____</p>	<p>$PO = 12$ and $NO = 20$.</p> 
<p>26. $CB =$ _____ $EB =$ _____ $AE =$ _____ $AB =$ _____</p>	<p>Given that the chord AB is 7 cm from the center of circle C, which has a radius of 25 cm.</p> 
<p>27. $WX =$ _____ $WY =$ _____ $OX =$ _____ $m \widehat{ZY} =$ _____</p>	<p>$XY = 10$ and $OW = 12.5$, $m \widehat{WLY} = 310^\circ$</p> 
<p>28. $MP =$ _____</p>	<p>$NL = 9$</p> 

PART 5: CIRCUMFERENCE & AREA OF CIRCLES

Find the circumference and area of each circle as indicated.

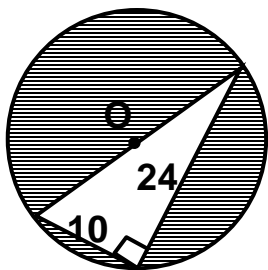
<p>29. C = _____ A = _____</p> 	<p>30. C = _____ A = _____</p> 
<p>31. C = _____ A = _____</p> 	<p>32. C = _____ A = _____</p> 

PART 6: AREA OF COMPOSITE FIGURES

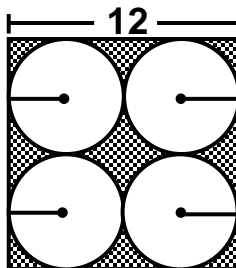
<p>33. A = _____ Round to the nearest thousandth.</p> 	<p>34. A = _____</p> 
<p>35. A = _____</p> 	<p>36. A = _____ Round to the nearest thousandth.</p> 

37. $A =$ _____

Round to the nearest thousandth.

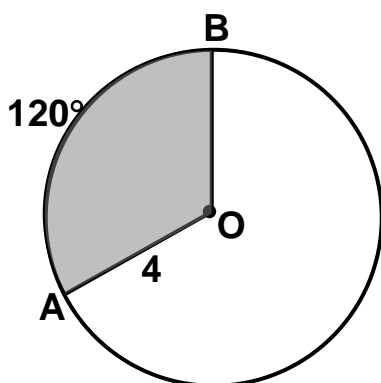


38. $A =$ _____

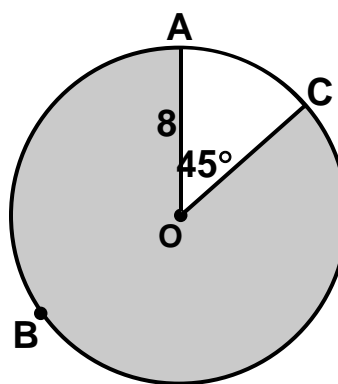
**PART 7: ARC LENGTH & SECTOR AREA**

Find the indicated arc length and area of the given sector. Answers to even numbered problems should be rounded to the nearest tenth.

39. $\widehat{AB} =$ _____ S.A. = _____



40. $\widehat{ABC} =$ _____ S.A. = _____



41. Arc Length = _____

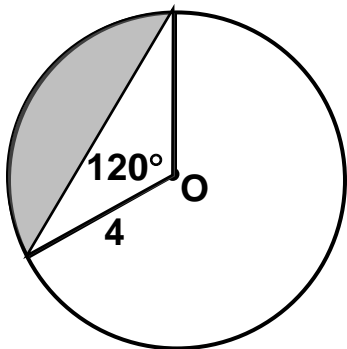
In a circle with a radius of 15 cm, the measure of an arc is 150° . Find the length of the arc.

42. Radius = _____

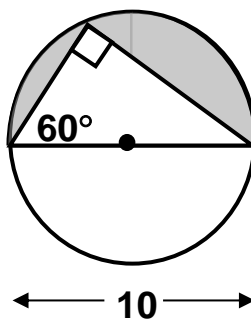
In a circle, the length of an arc with a measure of 120° is 14π . Find the radius of the circle.

For problems 43 - 46, find the area of the shaded region. Answers to the even problems should be rounded to the nearest tenth.

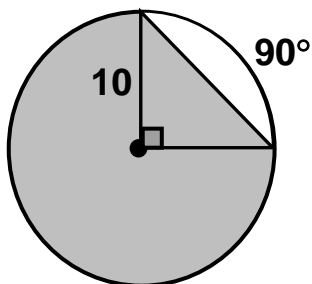
43. $A =$ _____



44. $A =$ _____



45. $A =$ _____



46. $A =$ _____

