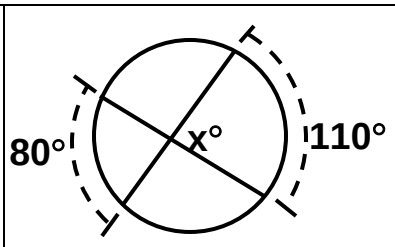
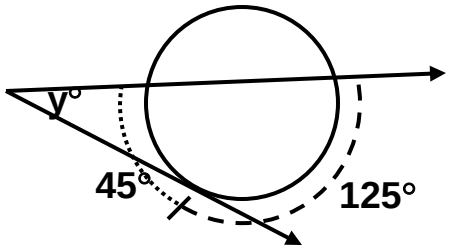
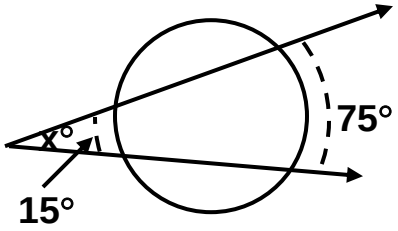
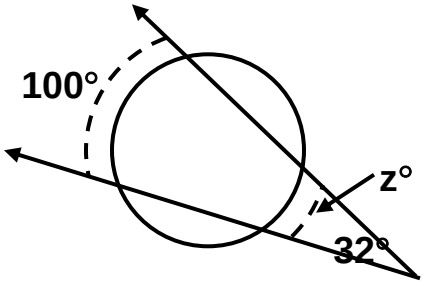
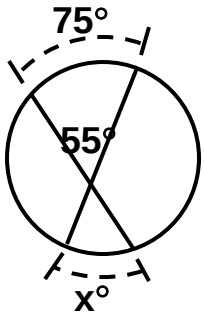
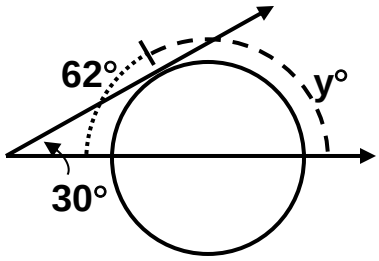
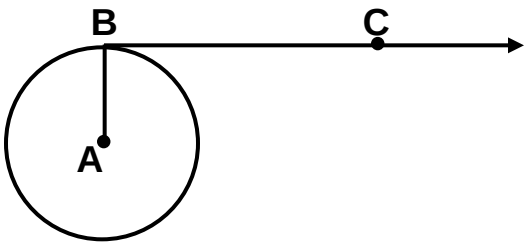
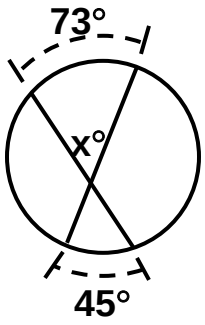
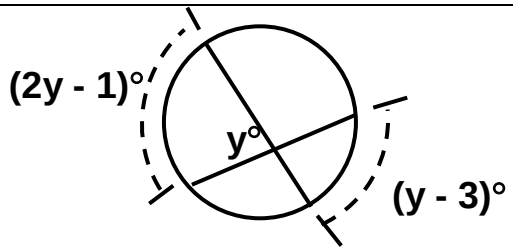
NAME_____**DATE**_____**PER.**____

MORE ANGLES

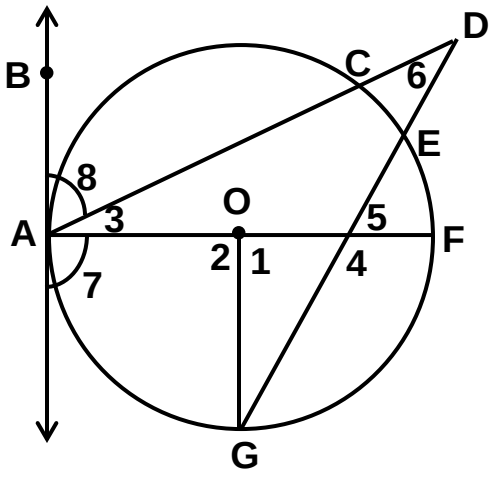
Find the value indicated.

1. x = _____	
2. y = _____	
3. x = _____	
4. z = _____	
5. x = _____	
6. y = _____	

7. m∠ABC = _____	$\overrightarrow{BC}$ is tangent to circle A. 
8. x = _____	
9. y = _____	

$\overleftrightarrow{AB}$ is tangent to circle O. $\overline{AF}$ is a diameter. m$\widehat{AG}$ = 100°, m$\widehat{CE}$ = 30°, and m$\widehat{EF}$ = 25°. Find the measure of each of the numbered angles.

10. m∠1 = _____
11. m∠2 = _____
12. m∠3 = _____
13. m∠4 = _____
14. m∠5 = _____
15. m∠6 = _____
16. m∠7 = _____
17. m∠8 = _____



Review

18. _____	Two of the three angle measures in a triangle are given. Which are angle measures of an acute triangle? A. 11°, 79° B. 11°, 59° C. 11°, 89° D. 11°, 29°
19. _____	To the nearest tenth, what is the altitude of an equilateral triangle whose sides measure 43 centimeters? F. 21.5 cm G. 24.8 cm H. 37.2 cm J. 74.5 cm
20. _____	What is the measure of one exterior angle of a regular polygon having 40 sides? A. 4.5° B. 9° C. 85.5° D. 171°
21. _____	Which CANNOT be used to prove that a quadrilateral is a parallelogram? F. One pair of opposite angles is congruent. G. Both pairs of opposite sides are parallel. H. Both pairs of opposite sides are congruent. J. One pair of opposite sides is both parallel and congruent.
22. _____	The area of a trapezoid is 128 square feet. If the height of the trapezoid is increased by a factor of 5, what is the area of the new trapezoid? A. 133 ft^2 B. 138 ft^2 C. 640 ft^2 D. 3200 ft^2