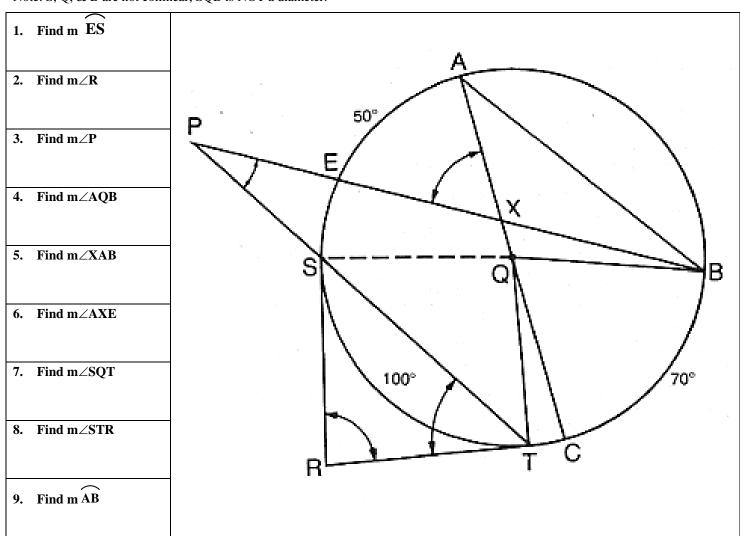
Name\_

Period \_

Chapter 10 Review for the OFE Wednesday, February 03, 2016 Circle S, A or N to tell whether each statement is SOMETIMES, ALWAYS or NEVER true.

**Problems 1-9.** Given  $\bigcirc O$ ,  $\overline{RT}$  and  $\overline{SR}$  are tangents,  $\overline{AC}$  is a diameter,  $\overline{AE}$  is 50°,  $\overline{ST}$  is 100°,  $\overline{TC}$  is 5°, m $\angle$ CQB is 70°. Note: S, Q, & B are not collinear; SQB is NOT a diameter.

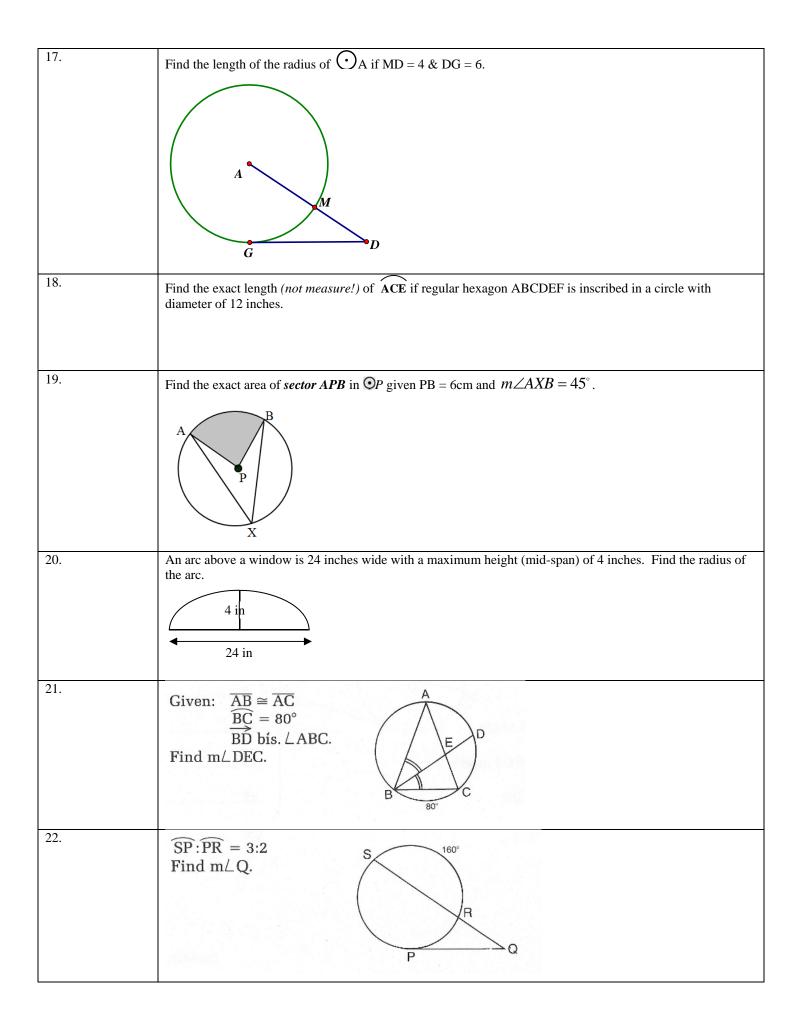


Problem 10 a-d. Show work where needed. Place your answer in the blank. (3 points each; 12 total.)

W:				
X:	W	3 4 X	8 3	4 2
Y:	60°	8	v	
Z:				

## Problems 11-22. Show work where needed. Place your answer in the left-most column. (6 points each.)

	w work where needed. I face your answer in the fert-most column: (o points each.)		
11.	$\bigcirc$ O ∠OCB = 75° Find the measure of ∠A.		
12.	A square with an area of 289 is inscribed in a circle. Find the diameter of the circle.		
13.	Given AC = 14, AB = 10, and CB = 18. Find the length of the radius of the largest circle.		
14.	Given: Tangent ® A, B, and C,  AB = 8, BC = 13, AC = 11  Find: The radii of the three ® (Hint:  This is a walk-around problem.)		
15.	O with radius 8, P with radius 3. The length of the common external tangent segment is 12. Find the distance between the two circles (that is $\overline{OP}$ ).		
16.	It is given that $\angle BAP = 40^{\circ}$ . If a point is chosen at random on $\bigcirc P$ , what is the probability that it is on $\widehat{AB}$ ?		



## **Proofs:** Complete on separate paper.

Remember that there is more than one way to write a proof. Hence, more than one proof will be correct. "Brevity is beautiful" therefore the shortest proof (that is complete) is preferable.

