Geometry Name: _____

Unit Five: Angles & Segments in Circles Review #2 (HW13) Date: _____ Period: _____

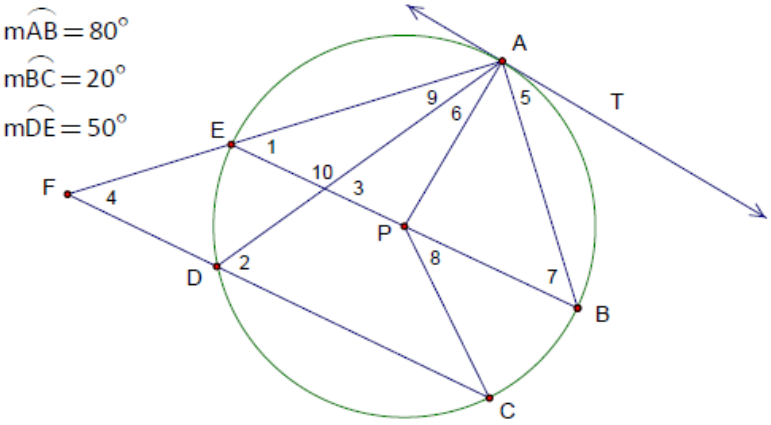
***P** is the center of the circle below.*

1. Given: $\overleftrightarrow{AT}$ is a tangent

$m\overset{\frown}{AB} = 80°$

$m\overset{\frown}{BC} = 20°$

$m\overset{\frown}{DE} = 50°$



$m\angle 1 =$ _____

$m\angle 2 =$ _____

$m\angle 3 =$ _____

$m\angle 4 =$ _____

$m\angle 5 =$ _____

$m\angle 6 =$ _____

$m\angle 7 =$ _____

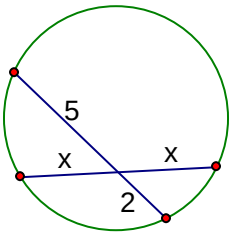
$m\angle 8 =$ _____

$m\angle 9 =$ _____

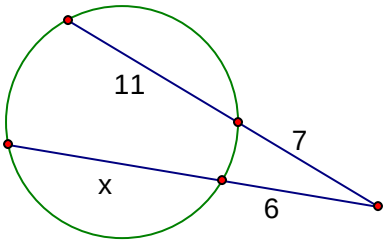
$m\angle 10 =$ _____

Find the value of x *for each problem. Show work.*

2. x = _____



3. x = _____



Use the diagram to the right for each problem below. Also, the information for #7 doesn't apply to #8, etc.

4. AQ = 10, QB = 6, QD = 15. Find CQ. _____

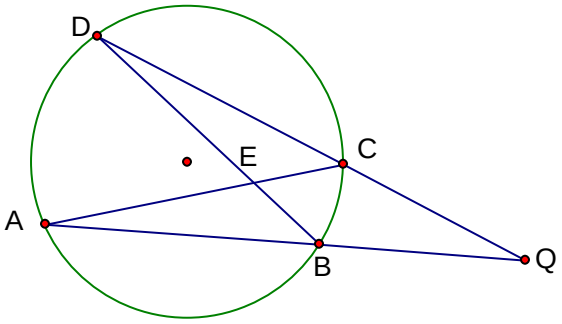
5. CE = 5, EA = 7, BE = 4. Find ED. _____

6. CD = 8, CQ = 10, AQ = 24. Find BQ. _____

7. AB = 7, BQ = 9, DQ = 18. Find CD. _____

8. BD = 9, BE = 3, CE = 2. Find AC. _____

9. AE = 8, BD = 16, BE = 4. Find AC. _____



10. Given: Circle with center **P**

a) $m\angle EDC =$ _____

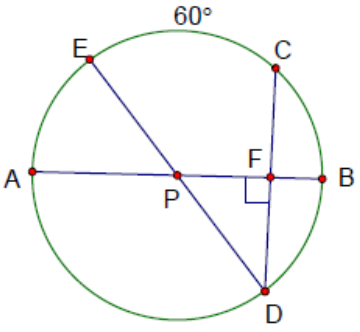
b) $m\angle FPD =$ _____

c) $m\overset{\frown}{AE} =$ _____

d) $m\overset{\frown}{BC} =$ _____

e) $m\overset{\frown}{AD} =$ _____

f) $m\angle ABD =$ _____



11. a) $m\overset{\frown}{BC} =$ _____

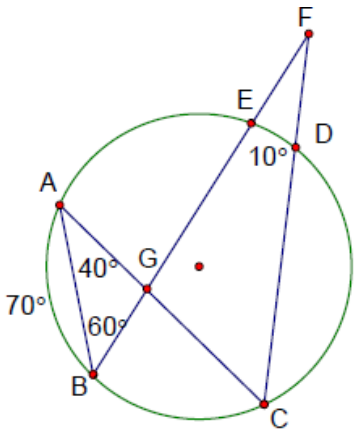
b) $m\overset{\frown}{AE} =$ _____

c) $m\overset{\frown}{CD} =$ _____

d) $m\angle C =$ _____

e) $m\angle F =$ _____

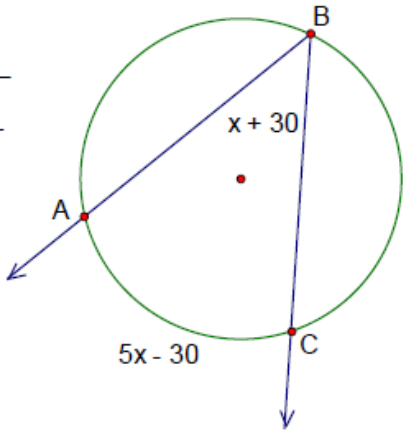
f) $m\angle BGC =$ _____



12. a) $x =$ _____

b) $m\angle B =$ _____

c) $m\overset{\frown}{AC} =$ _____



13. a) $m\angle A =$ _____

b) $m\angle B =$ _____

c) $m\angle D =$ _____

d) $m\overset{\frown}{AB} =$ _____

e) $m\overset{\frown}{BC} =$ _____