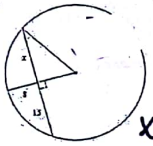
Name_____ Analytic Geometry

Date_____Period_____ Module 12 Review

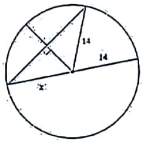
Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

1)



X=15

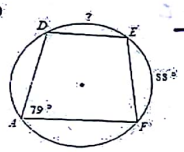
2)



X=14

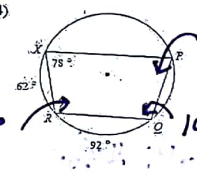
Find the measure of the arc or angle indicated.

3)



70°

4)

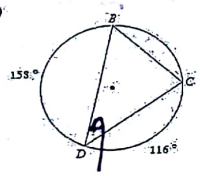


77°

103°

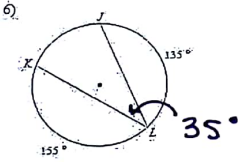
102°

5)



43°

6)



35°

7) What do you know about the opposite angles of a quadrilateral inscribed in a circle?

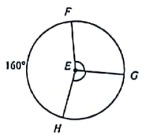
The angles are supplementary

8) If the area of a sector is 108π and the central angle is 270, what is the radius?

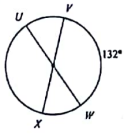
12 units

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle GEH$ 100°

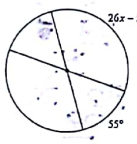


2) $m\overset{\frown}{XUW}$ 312°



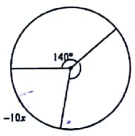
Solve for x. Assume that lines which appear to be diameters are actual diameters.

3)



X=5

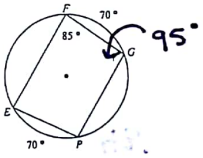
4)



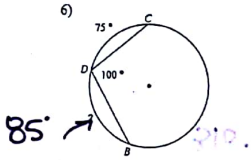
X=-8

Find the measure of the arc or angle indicated.

5)

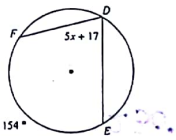


6)



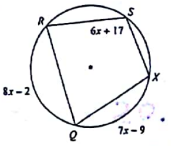
Solve for x.

7)



X=12

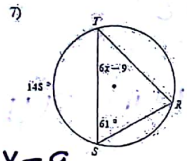
8)



X=15

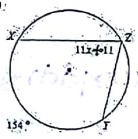
Solve for x.

7)



X=9

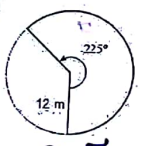
8)



X=6

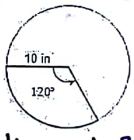
Find the area of each sector. Round your answers to the nearest tenth. in terms of π

5)



90π m²

6)



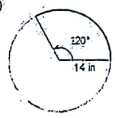
$\frac{100}{3}\pi$ in²

Find the length of each arc. in terms of π

13)

$\frac{39}{2}\pi$ ft

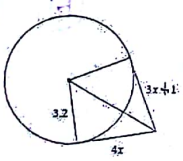
14)



$\frac{28}{3}\pi$ in

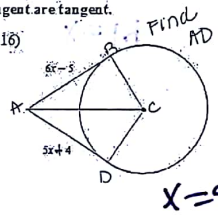
Solve for x. Assume that lines which appear to be tangent are tangent.

15)



X=1

16) Find AD

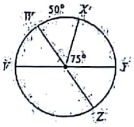


X=9

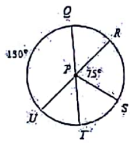
AD=49

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

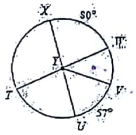
17) $m\overset{\frown}{ZVX}$ 230°



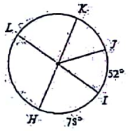
18) $m\angle QPR$ 50°



19) $m\overset{\frown}{WYV}$ 43°



20) $m\overset{\frown}{JHK}$ 310°



21) Name the following:

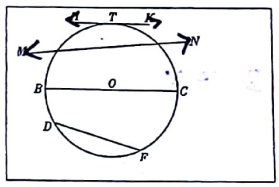
a. Diameter $\overline{BC}$

b. Radii $\overline{OC}$ $\overline{OB}$

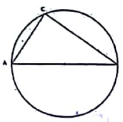
c. Tangent $\overleftrightarrow{HK}$

d. Chord $\overline{BC}$ $\overline{DF}$

e. Secant $\overleftrightarrow{MN}$

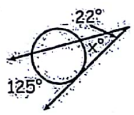


22) m<ACB=5x-10, solve for x.



X=20

23)



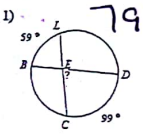
X=81°

24) AB=3x, PQ=5x-10. Find x.

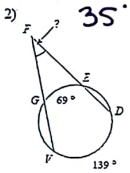
X=5

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

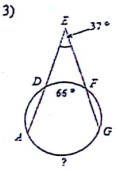
1) 79°



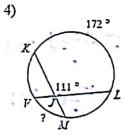
2) 35°



3) 140°

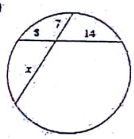


4) 50°

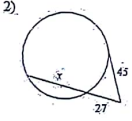


Solve for x. Assume that lines which appear tangent are tangent.

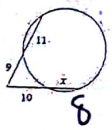
1) 16



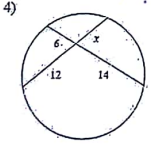
2) 48



3) 8



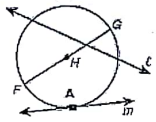
4) 7



Chapter 12 Review #2 Name _____ Pd ____

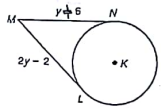
1. Identify each point, segment, or line as one of the following:

Point of Tangency	Tangent	Secant	Radius	Diameter	Center



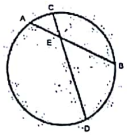
line ℓ Secant
line m tangent
H center
A point of tangency
$\overline{HG}$ radius
$\overline{FG}$ diameter

2. Solve for y.



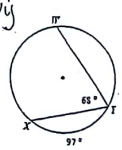
y = 8

3. If AE = 4, AB = 16, and ED = 8. Find the value of CD.



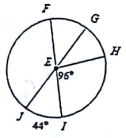
CD = 14

4. Find the measure of $\overset{\frown}{MW}$



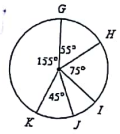
127°

5. Find the measure of $\angle JEI$



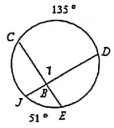
44°

6. Find the measure of $\overset{\frown}{HJ}$

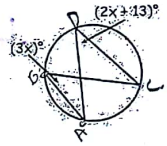


30°

11. Find the measure of $\angle 1$



93°

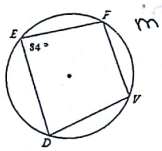


x = 13

$m\overset{\frown}{AC}$ = 78°

$m\angle ABC$ = 39°

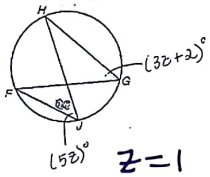
7. Find the measure of $\angle V$



$m\angle V$ = 96°

$m\overset{\frown}{FVD}$ = 168°

8. Find the measure of $\angle FGH$ & $\overset{\frown}{FH}$



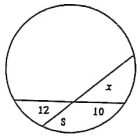
z = 1

$m\angle FGH$ = 5°

$m\overset{\frown}{FH}$ = 10°

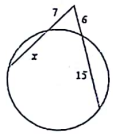
Find the value of x.

12.



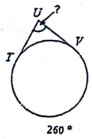
15

13.



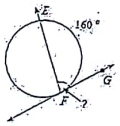
11

9. Find the measure of $\angle U$



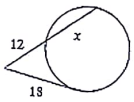
80°

10. Find the measure of $\angle EFG$



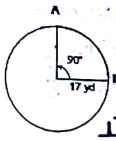
80°

14.



15

15. Find the length of arc AB and the area of the sector.
in terms of π.



Length of $\overline{AB}$: $\frac{17}{2}\pi$ yd

Sector Area of AB: $\frac{289}{4}\pi$ yd^2