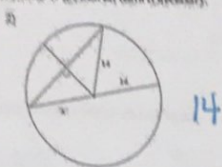
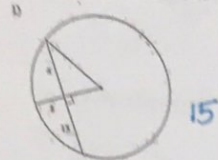


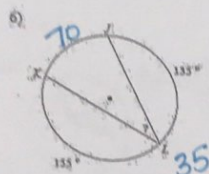
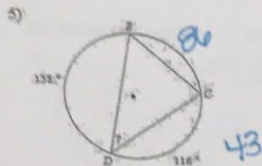
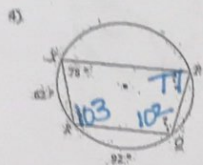
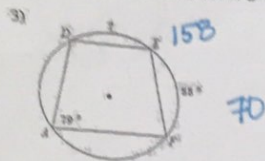
Name \_\_\_\_\_  
Date \_\_\_\_\_ Period \_\_\_\_\_

Analytic Geometry  
Module 12 Review

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



Find the measure of the arc or angle indicated.



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

supp

8) If the area of a sector is  $108\pi$  and the central angle is  $270^\circ$ , what is the radius?

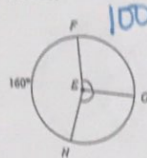
$$108\pi = \frac{\theta}{360} \pi r^2 \left( \frac{270}{360} \right)$$

$$144 = r^2$$

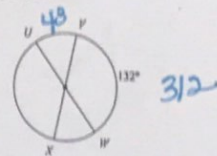
$$r = 12$$

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

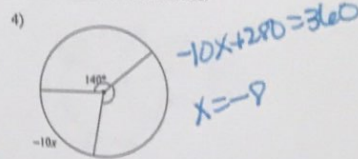
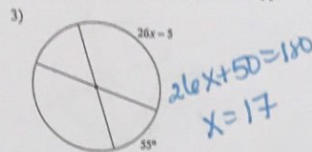
1)  $m\angle GEH$



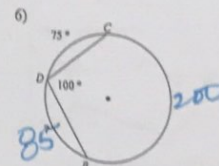
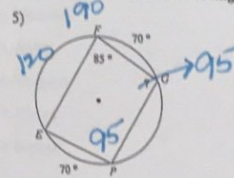
2)  $m\widehat{UW}$



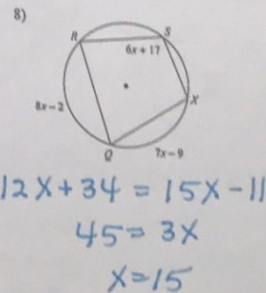
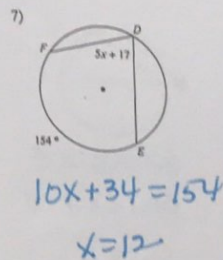
Solve for  $x$ . Assume that lines which appear to be diameters are actual diameters.



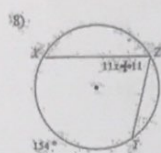
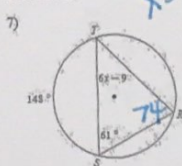
Find the measure of the arc or angle indicated.



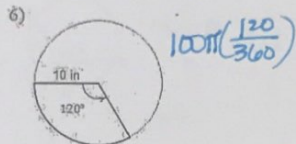
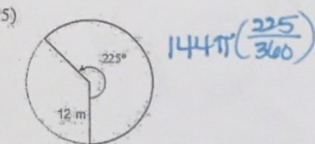
Solve for  $x$ .



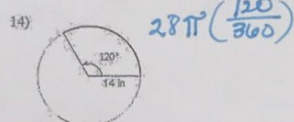
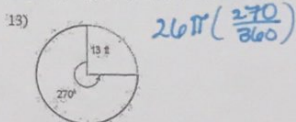
Solve for  $x$ .



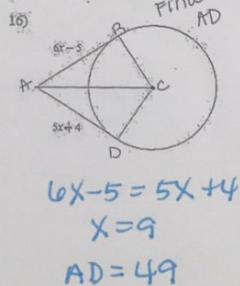
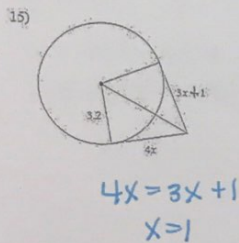
Find the area of each sector. Round your answers to the nearest tenth, in terms of  $\pi$ .



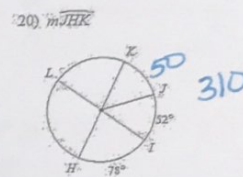
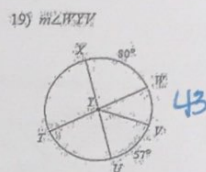
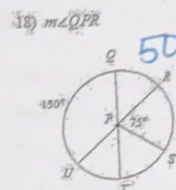
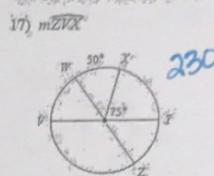
Find the length of each arc, in terms of  $\pi$ .



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

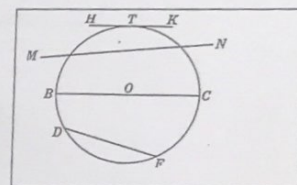


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

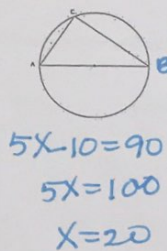


21) Name the following:

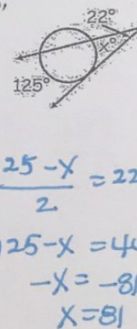
- a. Diameter  $\overline{BC}$
- b. Radii  $\overline{BO}, \overline{CO}$
- c. Tangent  $\overline{HK}$
- d. Chord  $\overline{DF}, \overline{BC}$
- e. Secant  $\overline{MN}$



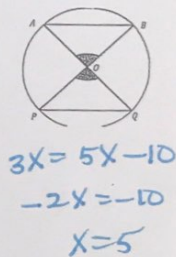
22)  $m\angle ACB = 5x - 10$ , solve for  $x$ .



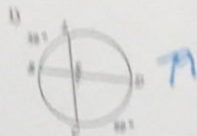
23,



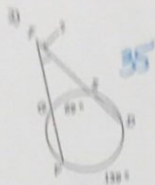
24)  $AB = 3x, PQ = 5x - 10$ . Find  $x$ .



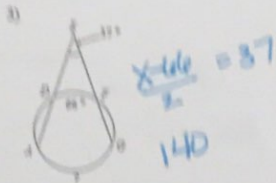
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.



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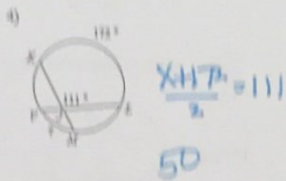


35



$$\frac{x - 140}{2} = 37$$

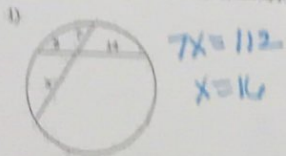
$$140$$



$$\frac{x - 111}{2} = 50$$

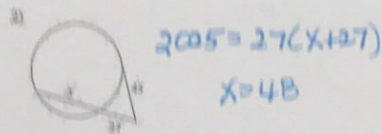
$$50$$

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



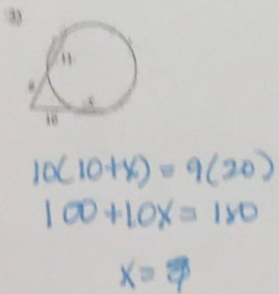
$$7x = 112$$

$$x = 16$$



$$2(27) = 27(x + 2)$$

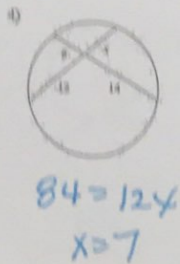
$$x = 48$$



$$10(10 + x) = 9(20)$$

$$100 + 10x = 180$$

$$x = 8$$



$$84 = 12x$$

$$x = 7$$

Chapter 12 Review #2

Name \_\_\_\_\_ Pd \_\_\_\_\_

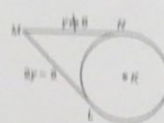
1. Identify each point, segment, or line as one of the following:

| Point of Tangency | Tangent | Secant | Radius | Diameter | Center |
|-------------------|---------|--------|--------|----------|--------|
|-------------------|---------|--------|--------|----------|--------|



- line  $\ell$  = secant
- line  $m$  = tangent
- H = center
- A = pt of tangency
- $\overline{HC}$  = radius
- $\overline{AD}$  = diameter

2. Solve for y.

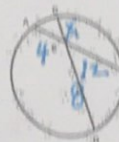


$$2y - 2 = y + 6$$

$$y = 8$$

y = \_\_\_\_\_

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

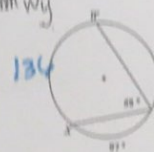


$$8x = 48$$

$$x = 6$$

$$CD = 14$$

4. Find the measure of  $\angle WY$ .

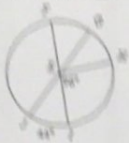


134

127

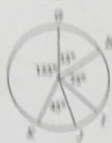


7. Find the measure of  $\angle JST$



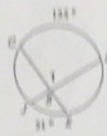
44

8. Find the measure of  $\angle J$



30

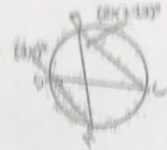
11. Find the measure of  $\angle I$



93

$$3x = 2x + 13$$

$$x = 13$$

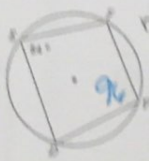


$$x = 13$$

$$m\widehat{AC} = 78$$

$$m\angle ABC = 99$$

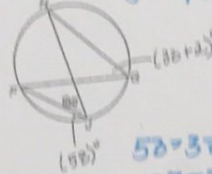
7. Find the measure of  $\angle P$



$$m\angle V = 96$$

$$m\widehat{VW} = 168$$

8. Find the measure of  $\angle FGH + \widehat{FH}$

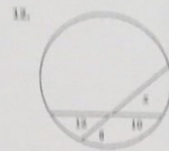


$$52 = 3x + 2$$

$$28 = 2$$

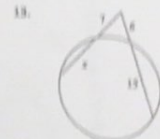
$$x = 1$$

Find the value of  $s$ .



$$8x = 120$$

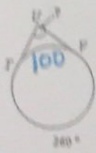
15



$$7(x + 1) = 6(21)$$

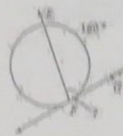
11

9. Find the measure of  $\angle U$



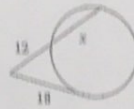
80

10. Find the measure of  $\angle EFG$



80

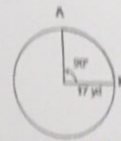
14.



$$324 = 12(12 + x)$$

15

15. Find the length of arc AB and the area of the sector, in terms of  $\pi$ .



$$\text{Length of } \widehat{AB} : 34\pi\left(\frac{1}{4}\right)$$

$$\text{Sector Area of AB: } 289\pi\left(\frac{1}{4}\right)$$