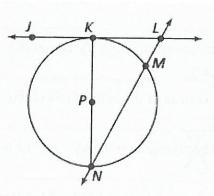
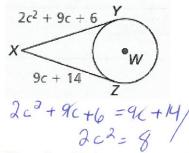
Unit 10 Circles Review

Tell whether the line, ray, or segment is best described as a radius, chord, diameter, secant, or tangent of OP.

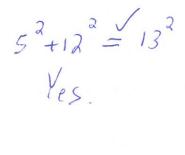
- 1. PK Radivs
- 2. NM Chord
- 3. IL tangent 4. KN diameter
- 5. NL Secant
- 6. PN radivs



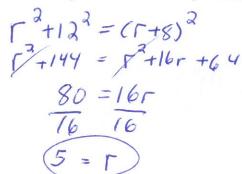
7. Solve for c given XY and XZ are tangent.

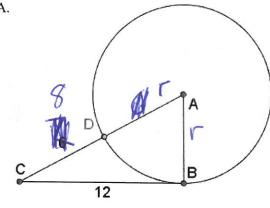


8. Is CB tangent to circle A? 6 13

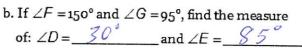


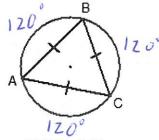
9. Given line CB is tangent and CA is a line, find the radius of circle A.

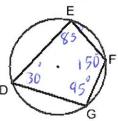




10. a. measure of $\widehat{ABC} = 240^{\circ}$

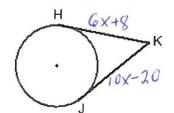


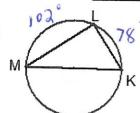




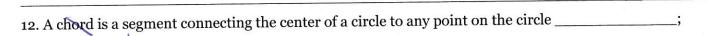
c. If HK and JK are tangents and HK = 6x + 8

d. MK is a diameter and the measure of $\widehat{ML} = 102^{\circ}$ then $\angle M = 39$





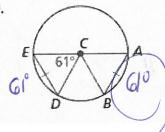
11. The arc measure is equal to the measure of its central angle.

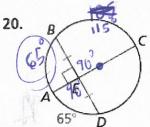


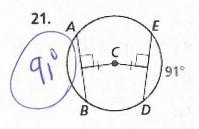
- 14. Two circles are not congruent if they have the same radius. _____;
- 15. If a circle has a circumference of 10π centimeters, then it has a radius of 5. Dr -> D=10 -> =5
- 16. Tangent segments to a circle from a point outside the circle are congruent. 50 True : ;
- 17. Any angle inscribed in a semicircle has a measure of 60°
- 18. The measure of a central angle is twice the measure of the arc it intercepts. _____

Find the measure of AB.

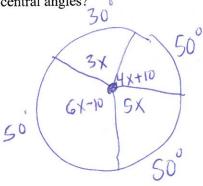
19.







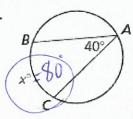
22. Grandma Betty has divided a circular apple pie into four slices by cutting along four radii. The central angles of the four slices are 3x, 6x - 10, 4x + 10 and 5x. Draw a picture and label it with the given information. What exactly are the numerical measures of the central angles?



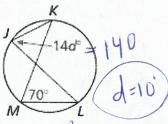
 $50^{\circ} \quad 3x + 4x + 10 + 6x - 10 + 5x = 180^{\circ}$ $\frac{18x = 180}{18}$

$$\frac{18x = 180}{18}$$

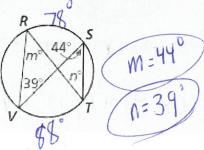
23.



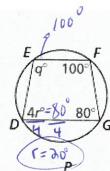
25.



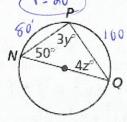
27.



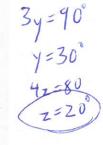
24.



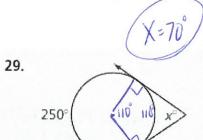
26.



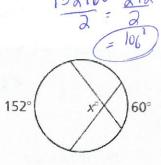
28.



= 28

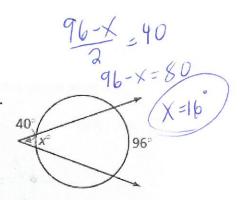


30.

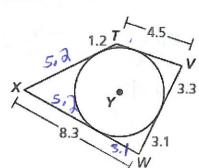


31.

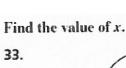
56°

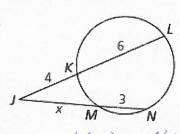


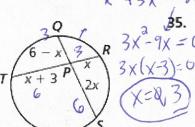
32. USING STRUCTURE Each side of quadrilateral TVWX is tangent to $\bigcirc Y$. Find the perimeter of the quadrilateral.

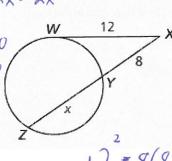












$$4(10) = x(x+3)$$

 $40 = x^3 + 3x$

$$0 = x^3 + 3x$$

$$0 = x^3 + 3x - 40 \Rightarrow (x + 8)$$
or elected the circle indicating the co

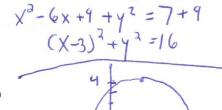
$$0 = x^{3} + 3x - 40 \rightarrow (x + 8)(x - 5) = 0$$

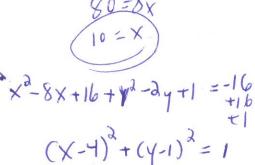
36. Given each equation, sketch the circle indicating the center and radius.

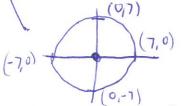
$$x^{2} + y^{2} = 49$$

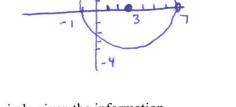
$$x^{2} + y^{2} - 6x = 7$$

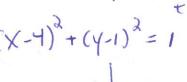
$$x^{2} + y^{2} - 8x - 2y = -16$$











37. Write the equation of each circle given the information.

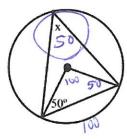
The center is (0, 0), and a point on the circle is (0, 6). $\chi^2 + \chi^2 = 3$

The center is (1, 2), and a point on the circle is (4, 2).

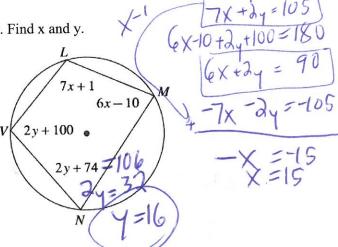
$$(x-1)^2+(y-2)^2=9$$

The center is (0, 0), and a point on the circle is (3, -7). $\times^{4} + y^{3} = 5\%$

38. Find x.



39. Find x and y.



40. Find the circumference of a circle with diameter 13 in in terms of pi.

41. If a circle has a circumference of 20π , what is the radius?