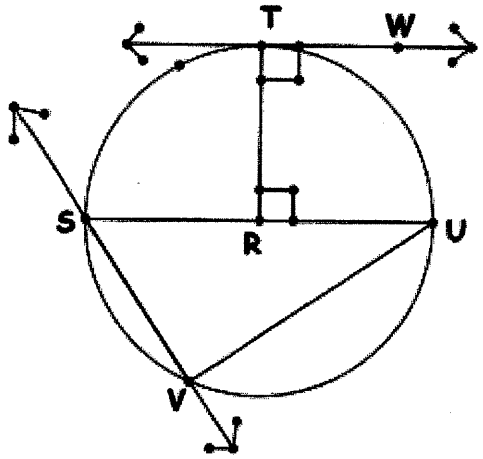
GEOMETRY- Quiz REVIEW 10.1 – 10.3

Part 1: Write the best term for each object:



Word Bank: central angle, inscribed angle, secant, semicircle , chord , minor arc, center, tangent line, radius, diameter, major arc, point of tangency

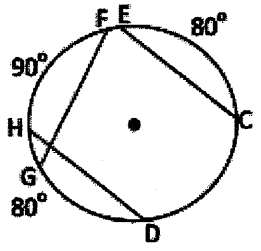
1. point R:_____
2. point T:_____
3. $\overline{TW}$:_____
4. $\overline{RT}$:_____
5. $\overline{SU}$:_____
6. $\overline{VU}$:_____
7. $\angle SRT$:_____
8. $\angle USV$:_____
9. $\overset{\frown}{SV}$:_____
10. $\overset{\frown}{SVU}$:_____
11. $\overset{\frown}{STV}$:_____
12. $\overset{\frown}{SV}$:_____

$C = \pi d$ $C = 2\pi r$

13. If the radius of a circle is 8, what are its Diameter and Circumference?

14. Given: $\overset{\frown}{FG} = 90^o, \overset{\frown}{HD} = 80^o, \overset{\frown}{EC} = 80^o$

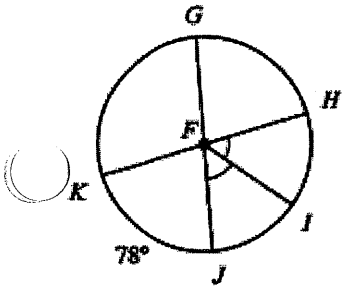
Based on the figure, which chords are congruent?



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

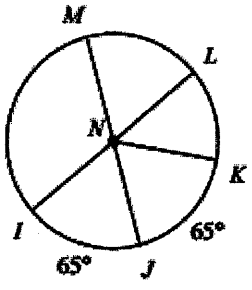
15.

$m\angle IFJ$



16.

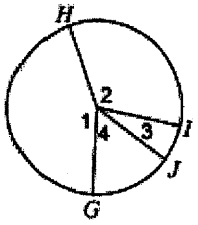
$m\angle KNI$



Name the arc made by the given angle.

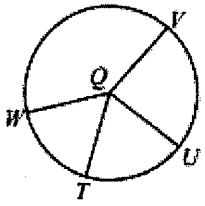
17. _____

$\angle 2$



18. _____

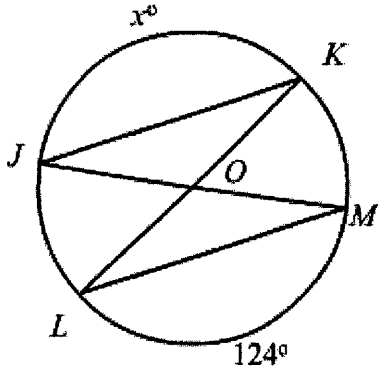
Major arc for $\angle UQT$



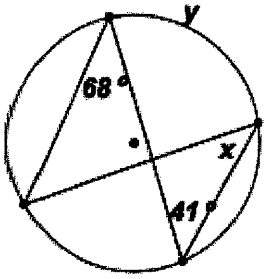
19. In the circle shown below, $JK = 12$ and $LM = 12$.

A) What is the value of x? _____

B) What is the value of $\overset{\frown}{JL}$? _____

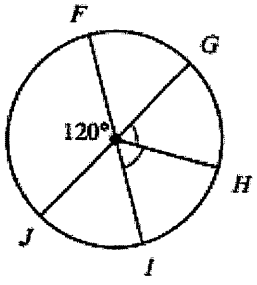


20. Find x and y

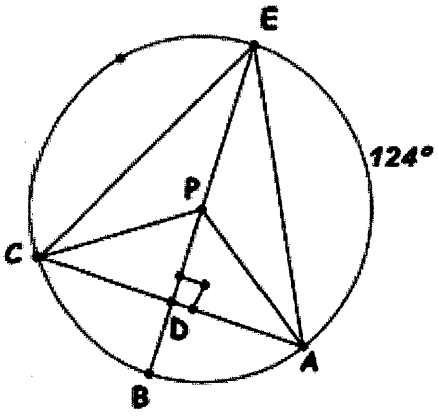


21. Find the below arc measure:

$m\overset{\frown}{GIF}$



22.



Find all of the following angle and arc measures in the diagram of $\odot P$ with $m\overset{\frown}{EA} = 124$

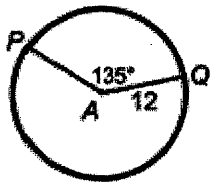
1. $m\overset{\frown}{EC}$ = _____
2. $m\overset{\frown}{CA}$ = _____
3. $m\overset{\frown}{CB}$ = _____
4. $m\overset{\frown}{ECA}$ = _____
5. $m\overset{\frown}{ECB}$ = _____
6. $m\angle EPA$ = _____
7. $m\angle BPC$ = _____
8. $m\angle EAC$ = _____
9. $m\angle PAD$ = _____
10. $m\angle CEA$ = _____

Recall: Since $\frac{part}{whole} = \frac{part}{whole}$, $\frac{arc\ length}{Circumference} = \frac{arc\ measure}{360^o}$ or $\frac{L}{2\pi r} = \frac{\widehat{AB}}{360^o}$

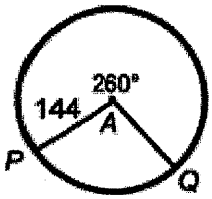
Find the indicated measure below

23)

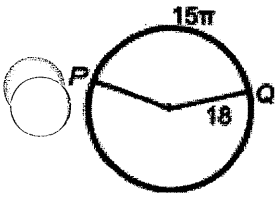
a) Find the arc length of $\widehat{PQ}$



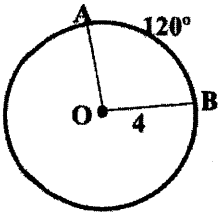
b) Find the arc length of $\widehat{PQ}$



c) Find the measure of the central angle $\widehat{PQ}$



d) In circle O, the radius is 4, and the measure of minor arc $\widehat{AB}$ is 120 degrees. Find the length of minor arc $\widehat{AB}$ to the *nearest* integer.



e) In circle O, the radius is 4, and the length of minor arc $\widehat{AB}$ is 4.2 feet. Find the measure of minor arc $\widehat{AB}$ to the *nearest* degree.