$\qquad$

Directions: Find the value of each variable. For each circle, the dot represents the center.
1.

2.

5.


Directions: Find the value of each variable. Lines that appear to be tangent are tangent.


Directions: Find each indicated measure for $\odot M$.
10. $m \angle B=86^{\circ}$
11. $m \angle C=43^{\circ}$
12. $m \overparen{B C}=102^{\circ}$
13. $m \widehat{A C}=172^{\circ}$

Directions: Find the value of each variable. For each circle, the dot represents the center.


Unit 6 Day 8 HD
Definitions, Angle, Arc Worksheet


Name:
Date: $\qquad$

For CIRCLE A Identify the following:

1. $\overline{A B}$ Radius
2. $\overline{D F}$ chord
3. $\overrightarrow{W G}$ Secant
4. $\overleftrightarrow{H J}$ Tangent
5. point H Point of Tangency
6. $\overline{C B}$ Diameter / Chord
7. point A $\qquad$
8. Circle $P$ with $m \angle N P R=29^{\circ}$ and $m \angle S P T=51^{\circ}$

Determine the degree of each arc and the type (major ,minor, semi-circle).

a) $m \overparen{N R}=$ $\qquad$ type Minor
b) $\mathrm{m} \overparen{S T}=$ $\qquad$ type $\qquad$
c) $m \overparen{T S R}=$ $\qquad$ type $\qquad$
d) $m \overparen{M S T}=$ $\qquad$ type Semi - Circle

9-12 refer to $\odot O$. Find the measure of each arc.
9. $m \overparen{A B} \quad 90^{\circ}$
10. $m \overparen{C D} \quad 135^{\circ}$
11. $\mathrm{m} \overparen{A C} \quad 135^{\circ}$
12. $m \overparen{A D C} \quad 225^{\circ}$


Find the value of $x$.

14.

15.

16. At ten-o'clock the hands of a clock form an angle of degrees.
17. At seven o'ciock the hands of a clock form an angle of $\qquad$ degrees.
18.

20.

24.


25.


