Chapter 10.1 – Circles   VOCABULARY

Circle : set of all_____ in a plane _____ from a given point, the center: _____

radius (plural is _____). Radius is a _____ with endpoints at the _____ and on the _____

chord: a _____ with _____ on the _____

diameter: a _____ that passes through the _____ of the circle

circumference of a circle is the _____ around the _____.

pi π is an _____ number. Pi is the _____ of the _____ divided by the _____

inscribed : A Polygon is inscribed in a circle if all of its _____ lie on the circle

circumscribed : A circle is circumscribed about a _____ if all of it contains all the vertices of the polygon.

central angle (of a circle): is an angle with the _____ in the _____of the circle:
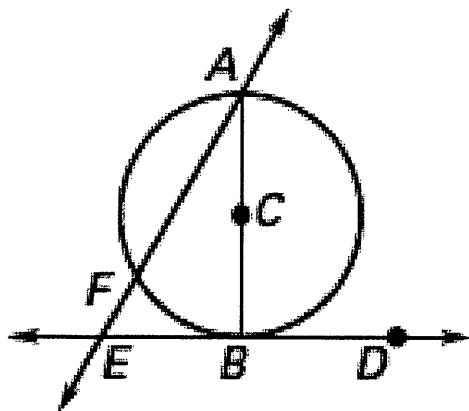
arc: an unbroken part of the _____

tangent : a line intersecting _____at only _____ point.

secant : a line that intersects a _____ at _____ points

chord segment: when 2 chords intersect inside a _____, each chord is divided into _____ chord segments

Identify the following:

Circle name_____

diameter _____

radius _____

chord _____

secant _____

tangent _____

arc _____

Examples:

If CB = 9 what is the diameter of Circle C? _____   What is the circumference of Circle C? _____

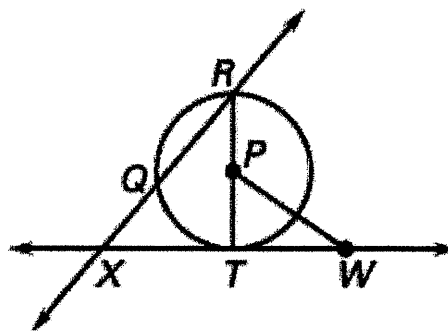Tell whether the line, ray, or segment is best described as a

radius, chord, diameter, secant, or *tangent* of $\odot P$.

a. $\overline{RT}$
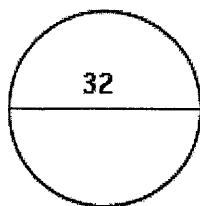
b. $\overline{WT}$

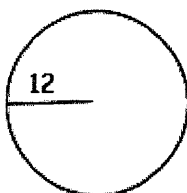c. $\overline{PT}$

d. $\overleftrightarrow{RQ}$

Find the radius or diameter. Then find the circumference:

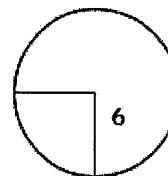$C = 2\pi r$ or $d\pi$. Remember: d = 2r and r = $\dfrac{1}{2}$d .
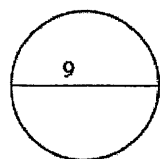
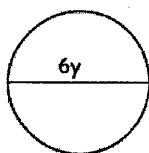**1.** r = _____   C = _____

32

2. d = _____   C = _____

12

3. d = _____   C = _____

6

4. r = _____   C = _____

9

5. r = _____   C = _____

6y

6. d = _____   C = _____

$\frac{3}{4}$x

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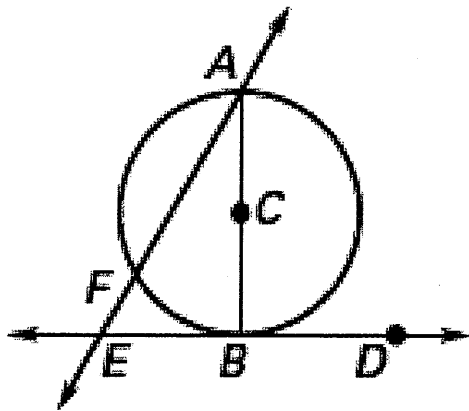
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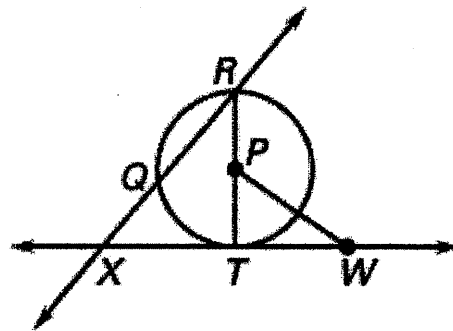Tell whether the line, ray, or segment is best described as a

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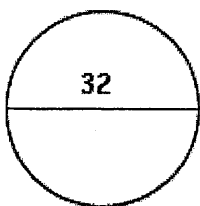a. $\overline{RT}$

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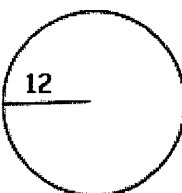
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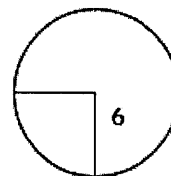$C = 2\pi r$ or $d\pi$. Remember: d = 2r and r = $\frac{1}{2}$d .
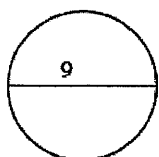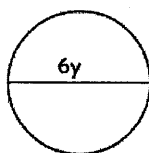
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