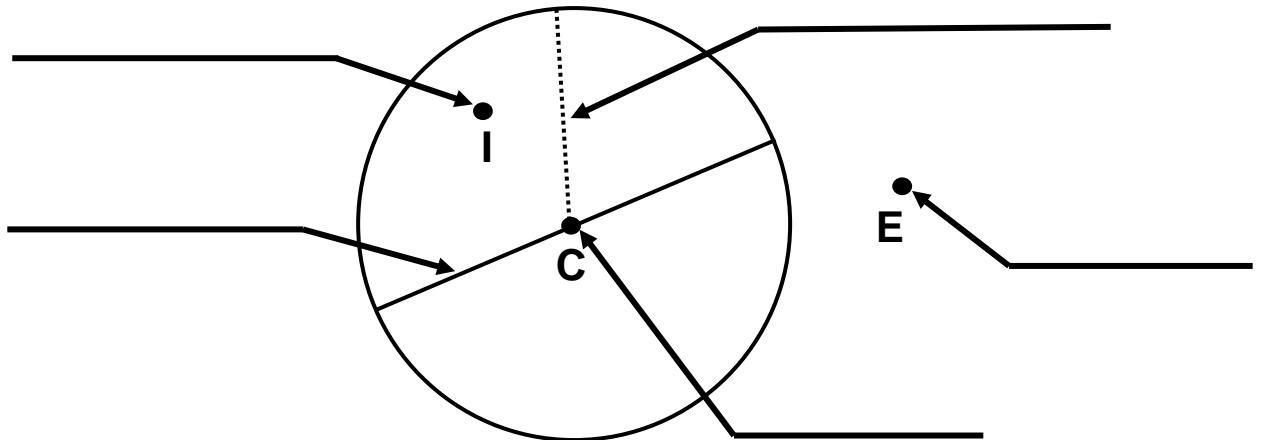
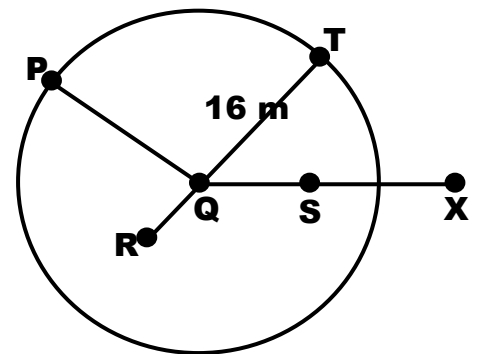


TOPIC 11-2: CIRCUMFERENCE & AREA OF CIRCLES

TERM:	DEFINITION:
Circle	The set of points in a plane that are _____ from a given point, called the _____.
Radius	A segment whose endpoints are the _____ of the circle and a point _____ the circle.
Diameter	A segment that passes through the center of the circle and has both endpoints _____ the circle.



EXAMPLE 1: Q is the center of this circle.



- Name the circle: _____
- Name all radii shown: _____
- What is the length of any radius of this circle? _____
- What would be the length of any diameter of this circle? _____
- Name all of the interior points shown: _____
- Name all of the exterior points shown: _____

EXAMPLE 2: Calculate the radius or diameter as indicated.

a) $r = 27$ in.; $d =$ _____

b) $d = 12$ m; $r =$ _____

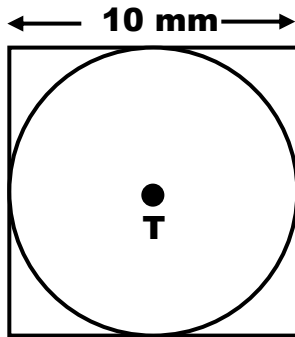
c) $d = 18.6$ cm; $r =$ _____

Once you know the radius or diameter of a circle, you can calculate its circumference and area. (For calculations, use the π button unless told otherwise.)

CIRCUMFERENCE:

AREA:

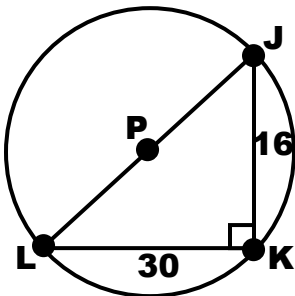
EXAMPLE 3: Find the circumference and area of $\odot T$ shown below.



$C =$ _____

$A =$ _____

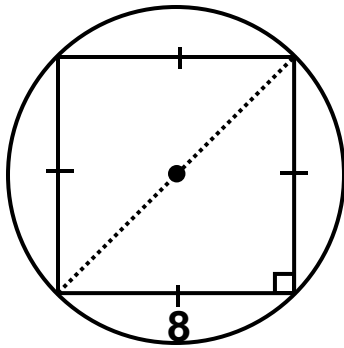
EXAMPLE 4: Find the circumference and area of $\odot P$ below.



$C =$ _____

$A =$ _____

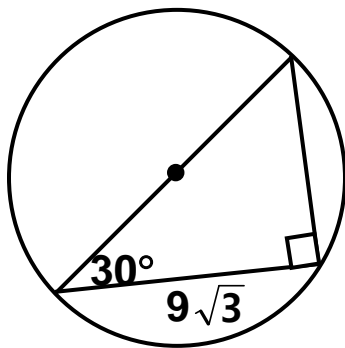
EXAMPLE 5: Find the circumference and area of the circle below.



C = _____

A = _____

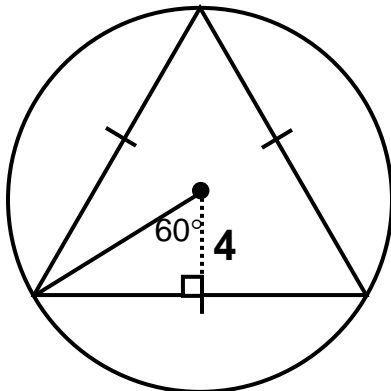
EXAMPLE 6: Find the circumference and area of the circle below.



C = _____

A = _____

EXAMPLE 7: Find the Circumference and area of the circle below.



C = _____

A = _____