Ch 11

## Circumference and Area of Circles

## Definition:

A **CIRCLE** is the set of all points in a plane that are the same distance from a given point, called the center of the circle.

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The distance from the center to a point on the circle is the <u>RADIUS</u>.

The distance across the circle, through the center, is the <u>DIAMETER</u>.

The <u>CIRCUMFERENCE</u> of a circle is the distance around the circle.

Circumference

Diameter

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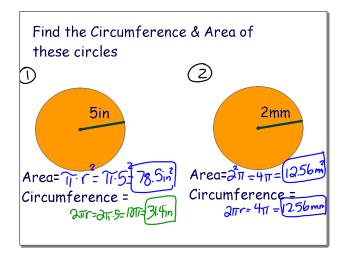
- For any circle, the ratio of the circumference to its diameter is denoted by the Greek letter  $\underline{\pi}$ , or pi.
- 3.14 is used for  $\pi$ .

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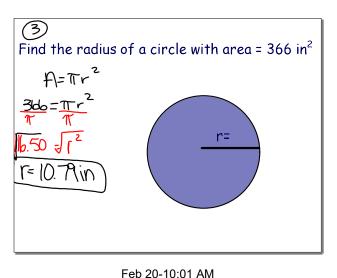
## Circle Formulas

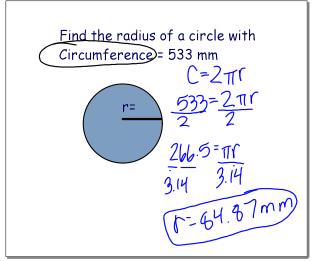
- Circumference = $\pi$  (diameter) =  $2\pi$  (radius)
  - •Area = π (radius)<sup>2</sup>

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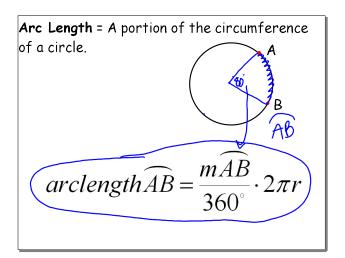


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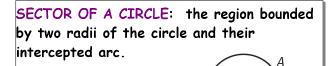




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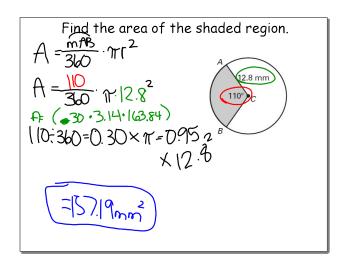
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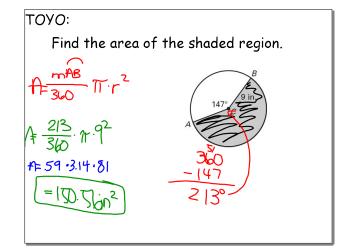
$$A = \frac{m\widehat{AB}}{360^{\circ}} \cdot \pi r^2$$

0° ""

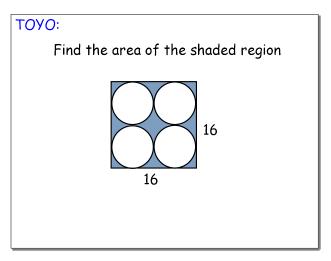
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