

11.4 Circumference and Arc Length



Before

You found the circumference of a circle.

Now

You will find arc lengths and other measures.

Why?

So you can find a running distance, as in Example 5.

Key Vocabulary

- circumference
- arc length
- radius, p. 651
- diameter, p. 651
- measure of an arc, p. 659

The **circumference** of a circle is the distance around the circle. For all circles, the ratio of the circumference to the diameter is the same. This ratio is known as π , or *pi*. In Chapter 1, you used 3.14 to approximate the value of π . Throughout this chapter, you should use the π key on a calculator, then round to the hundredths place unless instructed otherwise.

THEOREM

For Your Notebook

THEOREM 11.8 Circumference of a Circle

The circumference C of a circle is $C = \pi d$ or $C = 2\pi r$, where d is the diameter of the circle and r is the radius of the circle.

Justification: Ex. 2, p. 769



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

ARC LENGTH An **arc length** is a portion of the circumference of a circle. You can use the measure of the arc (in degrees) to find its length (in linear units).

COROLLARY

For Your Notebook

ARC LENGTH COROLLARY

In a circle, the ratio of the length of a given arc to the circumference is equal to the ratio of the measure of the arc to 360° .

$$\frac{\text{Arc length of } \widehat{AB}}{2\pi r} = \frac{m\widehat{AB}}{360^\circ}, \text{ or Arc length of } \widehat{AB} = \frac{m\widehat{AB}}{360^\circ} \cdot 2\pi r$$



Geometry 11 4 Circumference And Arc Length Answers

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