

11.5

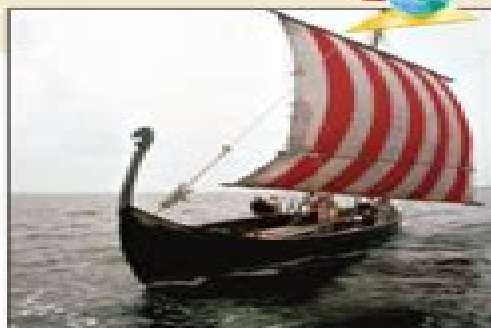
What you should learn

GOAL 1 Find the area of a circle and a sector of a circle.

GOAL 2 Use areas of circles and sectors to solve real-life problems, such as finding the area of a boomerang in Example 6.

Why you should learn it

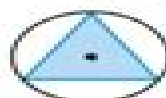
▼ To solve real-life problems, such as finding the area of portions of tree trunks that are used to build Viking ships in Exs. 38 and 39.



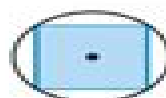
Areas of Circles and Sectors

GOAL 1 AREAS OF CIRCLES AND SECTORS

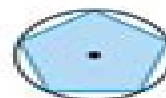
The diagrams below show regular polygons inscribed in circles with radius r . Exercise 42 on page 697 demonstrates that as the number of sides increases, the area of the polygon approaches the value πr^2 .



3-gon



4-gon



5-gon

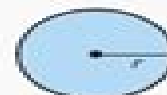


6-gon

THEOREM

THEOREM 11.7 Area of a Circle

The area of a circle is π times the square of the radius, or $A = \pi r^2$.

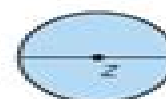


EXAMPLE 1 Using the Area of a Circle

a. Find the area of $\odot P$.



b. Find the diameter of $\odot Z$.



Area of $\odot Z = 96 \text{ cm}^2$

SOLUTION

a. Use $r = 8$ in the area formula.

$$\begin{aligned} A &= \pi r^2 \\ &= \pi \cdot 8^2 \\ &= 64\pi \\ &\approx 201.06 \end{aligned}$$

► So, the area is 64π , or about 201.06, square inches.

b. The diameter is twice the radius.

$$\begin{aligned} A &= \pi r^2 \\ 96 &= \pi r^2 \\ \frac{96}{\pi} &= r^2 \\ 30.56 &\approx r^2 \\ 5.53 &\approx r \end{aligned}$$

Find the square roots.

► The diameter of the circle is about $2(5.53)$, or about 11.06, centimeters.

10 7 Enrichment Areas Of Circles And Sectors Answers

A Loxley



10 7 Enrichment Areas Of Circles And Sectors Answers:

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