

11.5

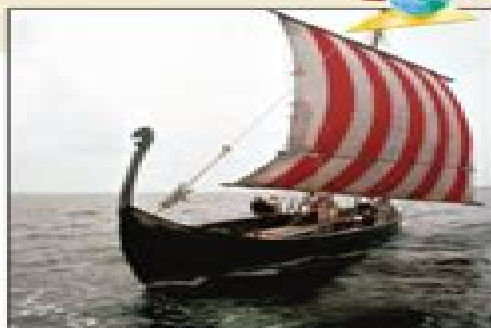
What you should learn

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

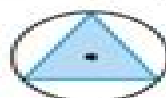
▼ To solve real-life problems, such as finding the area of portions of tree trunks that are used to build Viking ships in Exs. 38 and 39.



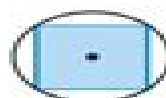
Areas of Circles and Sectors

GOAL 1 AREAS OF CIRCLES AND SECTORS

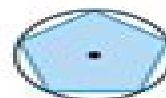
The diagrams below show regular polygons inscribed in circles with radius r . Exercise 42 on page 697 demonstrates that as the number of sides increases, the area of the polygon approaches the value πr^2 .



3-gon



4-gon



5-gon

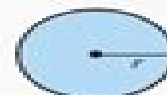


6-gon

THEOREM

THEOREM 11.7 Area of a Circle

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

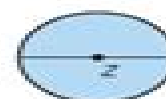


EXAMPLE 1 Using the Area of a Circle

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

L Cohen



10 7 Enrichment Areas Of Circles And Sectors Answers:

Unveiling the Magic of Words: A Report on "**10 7 Enrichment Areas Of Circles And Sectors Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**10 7 Enrichment Areas Of Circles And Sectors Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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