

Arc Length-Sector Area

Name: Key

Wells Worksheet (W2)

Date: _____

Block: _____

1. Find the length of arc AB.



2. The diameter is 24 cm. Find the length of arc CD.



3. The length of arc EF is 15.7. Find the length of the radius.



4. Find the length of arc XY.



5. A circle has an arc whose measure is 80° and whose length is 276.46. What is the diameter of the circle?

$$\frac{80}{360} = \frac{276.46}{\pi d}$$

d = 396

6. A circle has a circumference whose length is 78.5. Find the length of an arc whose central angle is 90°.

$$\frac{90}{360} = \frac{x}{78.5}$$

x = 19.63

7. Find the measure of the central angle of an arc if its length is 43.98 and the radius is 18.

$$\frac{x}{360} = \frac{43.98}{2\pi(18)}$$

x = 140°

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8. Calculate the sector area.



9. The area of a circle is 225π square inches. Find the area of the sector whose central angle is 40°.

$$\frac{40}{360} = \frac{x}{225\pi}$$

88.36 in²

10. The central angle of a sector is 60° and the area of the circle is 144π. What is the area of the sector?

$$\frac{60}{360} = \frac{x}{144\pi}$$

75.40 in²

11. A circle has a radius of 12. Find the area of the sector whose central angle is 120°.

$$\frac{120}{360} = \frac{x}{\pi(12)^2}$$

150.80 in²

12. Find the radius of a circle which has a sector area of 28.3 whose central angle is 90°.

$$\frac{90}{360} = \frac{28.3}{\pi r^2}$$

r = 6

13. The central angle of a sector is 72° and the sector has an area of 72. Find the radius.

$$\frac{72}{360} = \frac{72}{\pi r^2}$$

r = 5

14. Find the measure of the central angle of a sector if its area is 49.97 and the radius is 6.

$$\frac{x}{360} = \frac{49.97}{\pi(6)^2}$$

x = 49.97°
≈ 50°

Arc Length Geometry Answers

S Marginson



Arc Length Geometry Answers:

Regents Exams and Answers: Geometry, Sixth Edition Barron's Educational Series, Andre, Ph.D. Castagna, 2025-01-07

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clarity precision and conceptual understanding are emphasized Each topic is supplemented with worked examples illustrative diagrams and step by step derivations to reinforce learning Exercises at the end of sections encourage practice and mastery enabling students to develop problem solving skills while building a strong foundation for advanced studies in mathematics This book serves not only as a comprehensive academic resource but also as a practical guide for cultivating analytical thinking and geometric intuition making it an essential companion for undergraduate mathematics students aspiring to excel in both coursework and competitive examinations *Basic Geometry: Answer Book* ,1963-01-30 SAT: Total Prep 2018 Kaplan Test Prep,2017-06-06 5 practice tests 1 500 practice questions 28 lessons 15 video tutorials Cover

Geometry:
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