

Arc Length and Area of Sectors

Increasingly
Difficult
Exercises

Answer Key

- | | | | | | |
|----|---------------------------------|----|--------------------------------|----|--------------------------------|
| a) | $8\pi \text{ cm}^2$ | b) | $\frac{25\pi}{4} \text{ cm}^2$ | c) | $5\pi + 10 \text{ cm}$ |
| d) | $\frac{3\pi}{2} + 6 \text{ cm}$ | e) | $\frac{8\pi}{5} \text{ cm}$ | f) | $\frac{32\pi}{3} \text{ cm}^2$ |
| g) | 45° | h) | 120° | i) | 40° |
| j) | 6cm | k) | 5.5cm | l) | 6.1cm |

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Answer Key

- | | | | | | |
|----|-------------------|----|-------------------|----|-------------------|
| a) | 25.1cm^2 | b) | 19.6cm^2 | c) | 25.7cm |
| d) | 10.7cm | e) | 5.0cm | f) | 33.5cm^2 |
| g) | 45° | h) | 120° | i) | 40° |
| j) | 6cm | k) | 5.5cm | l) | 6.1cm |