

Question	Answer	Marks	Guidance
3	Use correct sector area formula	M1	
	Obtain $\frac{1}{2} \times 15^2 \times \frac{2}{5} \pi - \frac{1}{2} \times x^2 \times \frac{2}{5} \pi = \frac{209}{5} \pi$ or equivalent	A1	
	Obtain $[x] = 4$	A1	AWRT 4.00.
	Use correct arc length formula twice	M1	
	Obtain $22 + \frac{38}{5} \pi$	A1	OE. Must be in terms of $\pi$ . Like terms must be collected. Not from a rounded value of $x$ .
		5	