19 The diagram shows a sector $OAPB$ of a circle, centre O.

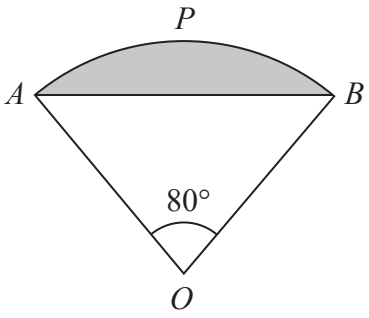


Diagram **NOT** accurately drawn

AB is a chord of the circle.
Angle $AOB = 80°$

The area of sector $OAPB$ is $\frac{25}{2}\pi \text{ cm}^2$

Work out the perimeter of the shaded segment.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 19 is 6 marks)

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