



The diagram shows a cross-section $RASB$ of the body of an aircraft. The cross-section consists of a sector $OARB$ of a circle of radius 2.5 m, with centre O , a sector $PASB$ of another circle of radius 2.24 m with centre P and a quadrilateral $OAPB$. Angle $AOB = \frac{2}{3}\pi$ and angle $APB = \frac{5}{6}\pi$.

- (a) Find the perimeter of the cross-section $RASB$, giving your answer correct to 2 decimal places.

[3]

[illegible]

- [illegible]

- [illegible]