



The diagram shows a sector OAB of a circle with centre O and radius r cm. Angle $AOB = \theta$ radians. It is given that the length of the arc AB is 9.6 cm and that the area of the sector OAB is 76.8 cm^2 .

- (a) Find the area of the shaded region. [5]

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- (b) Find the perimeter of the shaded region. [2]

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