

In the diagram, AOD and BC are two parallel straight lines. Arc AB is part of a circle with centre O and radius 15 cm. Angle $BOA = \theta$ radians. Arc CD is part of a circle with centre O and radius 10 cm. Angle $COD = \frac{1}{2}\pi$ radians.

Show that $\theta = 0.7297$, correct to 4 decimal places.	[1]
Find the perimeter and the area of the shape ABCD. Give your answers correct to 3 significances.	icant [7]
	Find the perimeter and the area of the shape <i>ABCD</i> . Give your answers correct to 3 significant the perimeter and the area of the shape <i>ABCD</i> .

