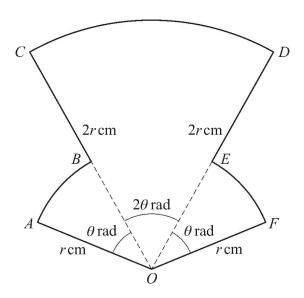
8



The diagram shows a metal plate OABCDEF consisting of sectors of two circles, each with centre O. The radii of sectors AOB and EOF are r cm and the radius of sector COD is 2r cm. Angle AOB = angle EOF = θ radians and angle COD = 2θ radians.

It is given that the perimeter of the plate is 14 cm and the area of the plate is 10 cm².

Given that $r > \frac{3}{2}$ and $\theta < \frac{3}{4}$, find the values of r and θ .	6]
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