

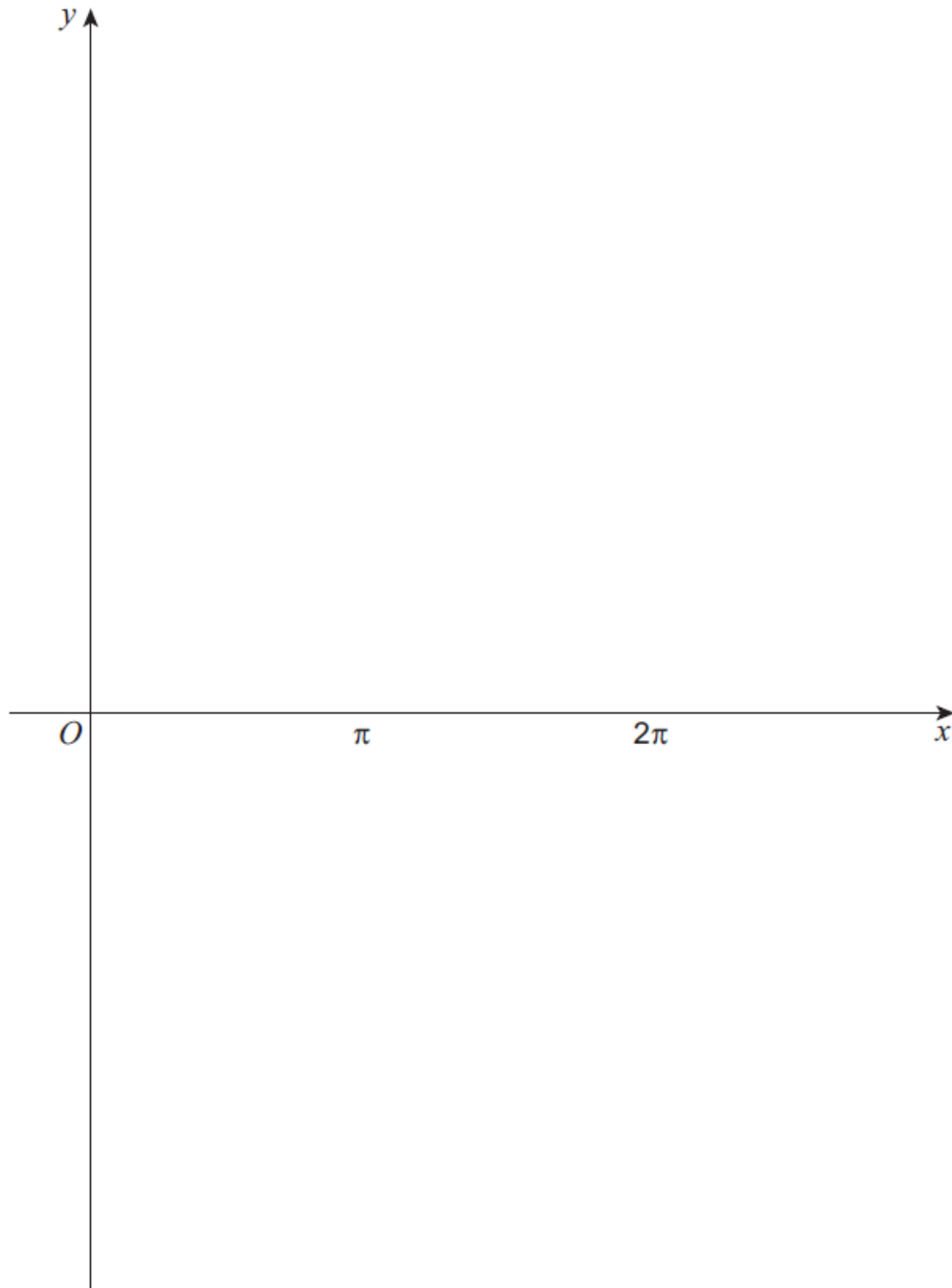
Trigonometry – A2 Mathematics P1

1. [June/2022/Paper_7357/01/No.7](#)
Sketch the graph of

$$y = \cot\left(x - \frac{\pi}{2}\right)$$

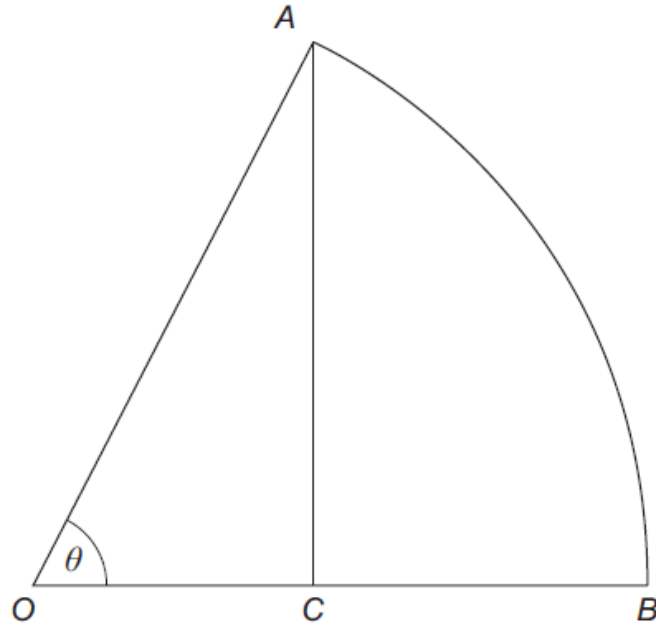
for $0 \leq x \leq 2\pi$

[3 marks]



2. June/2022/Paper_7357/01/No.10(a)

The diagram shows a sector of a circle OAB .



The point C lies on OB such that AC is perpendicular to OB .

Angle AOB is θ radians.

(a) Given the area of the triangle OAC is half the area of the sector OAB , show that

$$\theta = \sin 2\theta$$

[4 marks]
