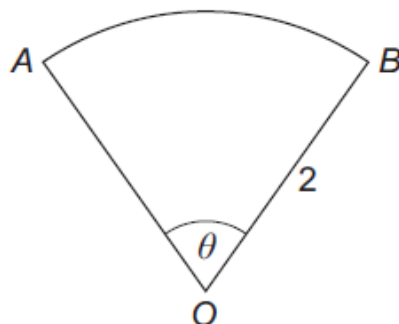


AQA – Trigonometry – A2 Mathematics P1

1. June/2020/Paper_1/No.3

The diagram shows a sector OAB of a circle with centre O and radius 2The angle AOB is θ radians and the perimeter of the sector is 6Find the value of θ

Circle your answer.

[1 mark]

1

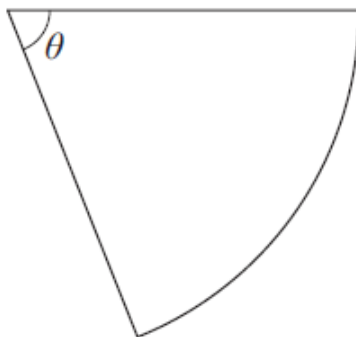
 $\sqrt{3}$

2

3

2. June/2019/Paper_1/No.3

The diagram below shows a sector of a circle.

The radius of the circle is 4 cm and $\theta = 0.8$ radians.

Find the area of the sector.

Circle your answer.

[1 mark]

1.28 cm²3.2 cm²6.4 cm²12.8 cm²

3. June/2019/Paper_1/No.12

(a) Show that the equation

$$2 \cot^2 x + 2 \operatorname{cosec}^2 x = 1 + 4 \operatorname{cosec} x$$

can be written in the form

$$a \operatorname{cosec}^2 x + b \operatorname{cosec} x + c = 0$$

[2 marks]
