

3. June/2019/Paper_1/No.3

Point P has polar coordinates $\left(2, \frac{2\pi}{3}\right)$.

Which of the following are the Cartesian coordinates of P ?

Circle your answer.

[1 mark]

$(1, -\sqrt{3})$

$(-\sqrt{3}, 1)$

$(\sqrt{3}, -1)$

$(-1, \sqrt{3})$

4. June/2019/Paper_1/No.4

The line L has polar equation

$$r = \frac{k}{\sin \theta}$$

where k is a positive constant.

(a) Sketch L .

[1 mark]



(b) State the minimum distance between L and the point O .

[1 mark]
