

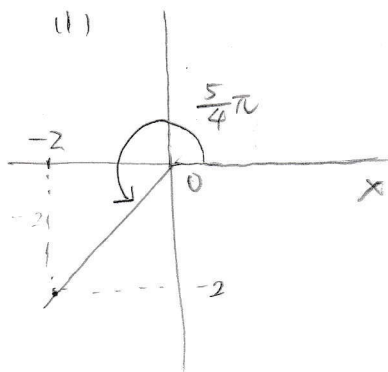
# kyokuzo2

直交座標が次のような点の極座標  $(r, \theta)$  を求めよ。ただし、 $0 \leq \theta < 2\pi$  とする。

(1)  $(-2, -2)$

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

(3)  $(0, 5)$

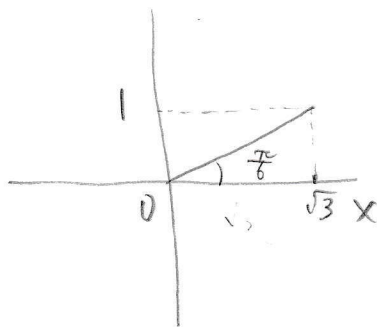


$$\theta = \frac{5\pi}{4}$$

$$r = \sqrt{(-2)^2 + (-2)^2} = 2\sqrt{2}$$

$$(2\sqrt{2}, \frac{5\pi}{4})$$

(2)

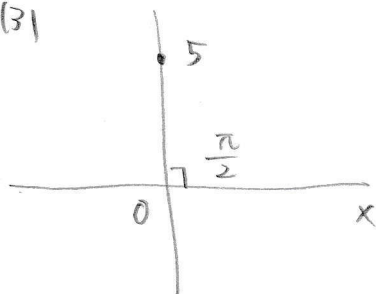


$$\theta = \frac{\pi}{6}$$

$$r = \sqrt{1^2 + (\sqrt{3})^2} = 2$$

$$(2, \frac{\pi}{6})$$

(3)



$$r = 5$$

$$\theta = \frac{\pi}{2}$$

$$(5, \frac{\pi}{2})$$