

問題 1

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

(2) $\theta = -\frac{\pi}{6}$, R の座標は $(3\sqrt{3}, 5)$

(3) $\frac{7\sqrt{3}-2\pi}{3}$

問題 2

(1) $\theta = \frac{\pi}{4}$

(2) $s = 1, t = 0$

(3) 32

問題 3

$$p_n = \frac{3n-3}{4n-5}$$

問題 4

(1) $k = 8$

(2) $a_{2024} = 3794$

(3) $n = 47$