

三角関数補足問題

①以下の関数の最大値・最小値を求めよ

(1) $y = \sin x + 2 \cos x \quad (0 \leq x \leq \pi)$

(2) $y = \sin x \cos x - \sqrt{2}(\sin x + \cos x) + 3 \quad (0 \leq x < 2\pi)$

(3) $y = 3\sin^2 x + 2 \sin x \cos x + \cos^2 x \quad \left(0 \leq x \leq \frac{\pi}{2}\right)$