

君津高校数学ⅡB 2学期期末テスト対策プリント 【解答】

1 [解答] $\sin \theta = \frac{3}{\sqrt{10}}, \cos \theta = -\frac{1}{\sqrt{10}}$

2 [解答] (1) $\sin \theta = -\frac{1}{\sqrt{5}}, \cos \theta = \frac{2}{\sqrt{5}}$

(2) $\sin \theta = \frac{2\sqrt{2}}{3}, \tan \theta = -2\sqrt{2}$ または $\sin \theta = -\frac{2\sqrt{2}}{3}, \tan \theta = 2\sqrt{2}$

3 [解答] (1) $-\frac{1}{8}$ (2) $\frac{9\sqrt{3}}{16}$

4 [解答] (1) $\theta = \frac{\pi}{3}, \frac{2}{3}\pi$ (2) $\theta = \frac{\pi}{3}, \frac{4}{3}\pi$ (3) $\frac{2}{3}\pi < \theta < \frac{4}{3}\pi$

5 [解答] $\theta = \frac{\pi}{6}, \frac{3}{2}\pi$

6 [解答] $\theta = \frac{7}{6}\pi, \frac{11}{6}\pi$ で最大値 $\frac{7}{2}$; $\theta = \frac{\pi}{2}$ で最小値 -1

7 [解答] (1) -2 (2) 0

8 [解答] -19

9 [解答] $\theta = 45^\circ$

10 [解答] $x = 4$

11 [解答] $\vec{b} = (\sqrt{3}, \sqrt{6}), (-\sqrt{3}, -\sqrt{6})$