

令和8年度横浜国立大学一般選抜(後期日程) 経済学部・経営学部 数学 解答例

1

(1) $f(x) = 8x^3 - 6x - \frac{4}{3}$

(2) 略

(3) 0

(4) $|\beta| < |\alpha| < |\gamma|$

2

(1) $\overrightarrow{\text{OD}} = \vec{a} - \vec{b} + \vec{c}$

(2) $u = 1, \quad v = 0, \quad w = 1$

(3) $p = \frac{2}{3}$

(4) $\overrightarrow{\text{OS}} = \frac{3}{2}p\vec{a} + \left(1 - \frac{3}{2}p\right)\vec{b} + \frac{3}{2}p\vec{c}, \quad \overrightarrow{\text{OR}} = \vec{a} + \frac{1}{3(1-p)}\vec{c}$

(5) 最小 $\sqrt{2} - \frac{3}{2} \quad \left(p = 1 - \frac{\sqrt{2}}{3}\right)$

3

$$(1) \quad \frac{1}{2}$$

$$(2) \quad \frac{1}{2} \left[1 + \left(-\frac{1}{3} \right)^n \right]$$

$$(3) \quad \frac{1}{m}$$

$$(4) \quad \frac{1}{3} \left[1 - \left(\frac{1}{2026} \right)^n \right]$$

4

$$(1) \quad \text{最大} \quad \sqrt{5} \quad \left(t = \frac{\pi}{2} \right), \quad \text{最小} \quad 1 \quad (t = 0, \pi)$$

$$(2) \quad 3\sqrt{3} \quad \left(t = \frac{2\pi}{3} \right)$$