

令和7年度横浜国立大学一般選抜(前期日程) 経済学部・経営学部 数学 解答例

1

(1) $\frac{4}{7}$

(2) $\frac{12}{35}$

(3) $\frac{4}{5}$

2

(1) $\alpha = 1, \overrightarrow{AP} = \frac{1}{2}\vec{b}, \overrightarrow{AQ} = \frac{1}{2}\vec{a} + \vec{b} + \vec{c}, \overrightarrow{AR} = t\vec{a}$

(2) $\beta = \frac{\gamma + 2t\gamma + 2t - 2}{4t}$

(3) $\beta = \frac{2t^2 + 3t - 2}{6t + 1}, \gamma = \frac{4t^2 - 2t + 2}{6t + 1}$

(4) $\frac{1}{2} \leq t < 1$

3

$$(1) \quad s > r^2 - r - 2, \quad p = r - \sqrt{\frac{s - r^2 + r + 2}{3}}, \quad q = r + \sqrt{\frac{s - r^2 + r + 2}{3}}$$

$$(2) \quad s = 4r^2 - 4r - \frac{1}{2}$$

$$(3) \quad r < -\frac{3}{2} \text{ または } -\frac{3}{2} < r$$

$$(4) \quad T^2 = \frac{1}{4} (4r^2 - 4r + 2) \left(r + \frac{3}{2} \right)^2$$

$$(5) \quad -\frac{1}{2\sqrt{2}}$$