

1 解答

[問 1] $a_1 = 66, a_2 = 1485$

[問 2] $\frac{12!}{2^n \cdot n! \cdot (12 - 2n)!}$

[問 3] 1, 2, 3, 4

[問 4] 5

2 解答

[問 1] (1) 24

(2) $s = \frac{2}{7}, t = \frac{2}{7}$

(3) (2, 1)

[問 2] (1) $sg^2 + td$

(2) $s = \frac{1}{2}, t = -1$

(3) $s = \frac{eh^2 - df}{g^2h^2 - d^2}, t = \frac{fg^2 - de}{g^2h^2 - d^2}$

3 解答

[問 1] (証明略)

[問 2] $\frac{13}{12}\pi, \frac{19}{12}\pi$

[問 3] $m \leq -2 - \sqrt{3}$ または $2 - \sqrt{3} \leq m$

4 解答

[問 1] $(0, -2), (\pm\sqrt{3}, 1)$

[問 2] $y = \frac{1}{\sqrt{3}}x$

[問 3] $(-1, -1), (1, -1), \left(\frac{7}{4}, \frac{17}{16}\right)$

[問 4] $\frac{4}{3}\pi + 3\sqrt{3} - \frac{7}{3}$