

令和6年度 編入学試験解答

数学

1.

(1) $x = 5, -13$

(2) $(\frac{180}{\pi})^\circ$

(3) $4^b = a^2$

(4) $\frac{2}{3}\pi < x < \frac{5}{3}\pi$

(5) $x = -3, 2, 4$

(6) $x^2 + (y + 1)^2 = 9$

(7) 2

(8) $a_n = 2^n - 1$

2.

(1) $y = 15x - 26$

(2) 極大値 29 ($x = -3$), 極小値 -3 ($x = 1$).

3. $\frac{215}{6}$

4.

(1) $a = \frac{1}{2}, b = \frac{1}{2}$

(2) $S_n = \frac{1}{2} \left(\frac{3}{2} - \frac{1}{n+1} - \frac{1}{n+2} \right)$