1 次の漸化式を解け。

(1)
$$a_{n+1} = \frac{a_n}{3a_n + 1}, \ a_1 = \frac{1}{4}$$

(2)
$$a_{n+1} = \frac{2}{n+1} a_n + \frac{1}{(n+1)!}, \ a_1 = 1$$

Ans.
$$a(n) = \frac{1}{3 \cdot n + 1}$$

Ans.
$$a(n) = \frac{2^n - 1}{n!}$$

2 次の漸化式を解け。

(1)
$$a_{n+1} = 2a_n + n - 1$$
, $a_1 = 1$

Ans.
$$a(n) = 2^n - n$$

(2)
$$a_{n+2} - 5a_{n+1} + 6a_n = 6n$$
, $a_1 = 1$, $a_2 = 1$