

次の漸化式を解け。

$$(1) a_{n+1} = a_n - 2, a_1 = 3$$

$$(2) a_{n+1} = -2a_n, a_1 = 3$$

$$(3) a_{n+1} = \frac{1}{3}a_n + 2, a_1 = 1$$

$$(4) a_{n+1} = 3a_n - 2n - 1, a_1 = 3$$

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

$$(6) a_{n+1} = 8a_n + 2^n, a_1 = 2$$