

13.

$$\int_{x-1}^x f(t)dt = x^2 \quad \text{微分}$$

$$2x = f(x) - f(x-1)$$

$$f(x) = 2x + f(x-1)$$

$$f(1) = 2 \times 1 + f(0)$$

$$f(2) = 2 \times 2 + f(1)$$

\vdots

$$f(n) = 2 \times n + f(n-1)$$

$$f(n) = 2 \cdot \frac{n \cdot (n+1)}{2} + f(0)$$

$$= n^2 + n + f(0)$$