

19. $f(a)$ の値

(1) 1 (2) 3 (3) 6 (4) $2a^2 - 3a + 1$ (5) $2a^2 + 3a + 1$ (6) $2a^2 + a$

関数 $f(x) = 2x^2 - 3x + 1$ に対し、次の値を求めよ。

(1) $f(0)$

$$\begin{aligned} f(0) &= 2 \cdot 0^2 - 3 \cdot 0 + 1 \\ &= 1 \end{aligned}$$

(2) $f(2)$

$$\begin{aligned} f(2) &= 2 \cdot 2^2 - 3 \cdot 2 + 1 \\ &= 8 - 6 + 1 \\ &= 3 \end{aligned}$$

(3) $f(-1)$

$$\begin{aligned} f(-1) &= 2(-1)^2 - 3(-1) + 1 \\ &= 2 + 3 + 1 \\ &= 6 \end{aligned}$$

(4) $f(a)$

$$f(a) = 2a^2 - 3a + 1$$

(5) $f(-a)$

$$\begin{aligned} f(-a) &= 2(-a)^2 - 3(-a) + 1 \\ &= 2a^2 + 3a + 1 \end{aligned}$$

(6) $f(a+1)$

$$\begin{aligned} f(a+1) &= 2(a+1)^2 - 3(a+1) + 1 \\ &= 2(a^2 + 2a + 1) - 3(a+1) + 1 \\ &= 2a^2 + a \end{aligned}$$