

Birlik

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Yeni

$$f(x) = \left(\frac{1}{x}\right)^{x-1} - 1 \quad x=1 \quad \frac{1}{1+0} \quad (2) \quad 1$$

$$y = \sqrt{x^r f(x-1)} \quad x^r f(x-1) \gg$$

$$Df = \left[\begin{array}{c} 1 \\ -1+0 \end{array} \right] \quad \checkmark \quad \frac{1}{-1+0}$$

$$f(x) = \sqrt{x+|x-1|} \quad (2) \quad 1$$

$$f(-x) = \sqrt{-x+|1-x|} \quad -x+|1-x| \gg$$

$$Df = \left[\begin{array}{c} 1 \\ 1-1 \end{array} \right] \quad \checkmark \quad \frac{1}{1-1}$$

$$y = \frac{x-1}{f(x)} \quad (2) \quad 1$$

$$Df = \left[\begin{array}{c} 1 \\ 1 \end{array} \right] \quad \checkmark \quad \frac{1}{1+1}$$

$$J_1 = \frac{1}{x^r - \sqrt{x^r - x - r}} \quad D_1 = D_r \Rightarrow x^r - \sqrt{x^r - x - r}$$

$$J_r = \frac{1}{(x^r - x - r)(x^r + x + 1)} \quad = (x^r + x + b)(x^r + x + d)$$

$$x^r + x + a + b \quad x^r + x + a + d$$

$$\sqrt{-(a+b)} = \sqrt{c} \quad \checkmark$$

$$+ (ad + bc) x + bd$$

$$a + c = -x \rightarrow a = -c$$

$$ac + r(b + d) = -x \rightarrow -c^2 + r(b + d) = -x$$

$$-cd + b + c = -x \rightarrow c(b - d) = -x$$

SCB0

$$\checkmark \quad b = -r \quad c = 1$$

$$d = 1 \quad a = -1$$

$$-r = (-9f - 6) \quad -9n - 1$$

$$f(x) = a^x + x \rightarrow x(a^x + 1)$$

(2) - a

$$y = \sqrt{f(x) - f\left(\frac{x}{2}\right)}$$

$$f(x) - f\left(\frac{x}{2}\right) > 0$$

$$Df = \left\{ (-r, 0) \cup [r, +\infty) \right\}$$

$$f(r) + f(1)$$

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

(2) - 9

$$f(x) = x^2$$

$$a = 1$$

$$f(r) = r^2 - 1 = 1$$

$$f(r) = 1$$

$$r + 1 = 1$$

$$a = r$$

$$f(1) = 1 - 1 = 0$$

$$f(1) = 0$$

$$f(x) = x^2 - 4x + 1$$

$$f(x) = x^2 - 4x + 1 = (x-2)^2 - 3$$

- 1

(2)

$$g(x) = x^2 + 9x^2 + 12x = (x+3)^2 - 9$$

$$g(x) = x^2 + 9x^2 + 12x$$

$$\frac{(x^2 - 4x + 1)^2}{(x^2 - 4x + 1)^2 + 1} = \frac{-1}{10}$$

$$f(x) = \sqrt{x+1} + \sqrt{x-1}$$

$$g(x) = \sqrt{x-1} + \sqrt{x+1}$$

- 1

$$\sqrt{x-1} + 1 = \sqrt{x-1} + 1$$

$$\sqrt{x-1} - 1$$

(2)

$$f(x) + g(x) = \sqrt{x-1} + 1 + \sqrt{x-1} + 1 = 2\sqrt{x-1} + 2$$

$$f(x) - g(x) = \sqrt{x-1} + 1 - (\sqrt{x-1} + 1) = 0$$

$$\begin{aligned} a &= 0 \\ b &= 1 \\ c &= -1 \end{aligned}$$

$$\frac{y}{-x} = -\frac{1}{x}$$

$$g(a) = \{(2, 1), (1, 0), (3, 0), (4, 1)\} \quad f(a) = \frac{a+2}{a^2-2a+3} \quad \text{--- 9}$$

1 و 3، 2، 3، 4

$$\frac{g}{f} = \{(2, -\frac{1}{4}), (0, 4)\} \quad \checkmark$$

$$x \rightarrow \frac{x}{-1} = -x$$

$$\frac{x}{3} \quad \frac{1}{12} \quad \frac{1}{12}$$

$$f(a) = \{(1, 2), (3, -1), (2, 2), (-1, 4)\} \quad \text{--- 6}$$

$$g(a) = \{(-2, 2), (1, -1), (2, 2), (-1, 0)\} \quad \text{--- 2}$$

$$f(2a) = \{(\frac{1}{2}, 2), (\frac{3}{2}, -1), (2, 2), (-\frac{1}{2}, 4)\} \quad \checkmark$$

$$f(a^2) = \{(1, 2), (\sqrt{2}, -1), (2, 2), (-1, 2), (\sqrt{2}, -1), (-2, 2)\} \quad \checkmark$$

$$g^2(a) + 1 = \{(-2, 19), (1, 3), (2, 9), (-1, 1)\} \quad \checkmark$$

$$\frac{x+1}{g} = \{(1, -4), (2, -1)\} \quad \checkmark$$