

تلفظ نموده

یا در دم (نفسه) (نفسه)

نفسه نموده

$$f(x) = \left(\frac{1}{r}\right)^{x-1}$$

$$y = \sqrt{x^r f(x+1)}$$

پایه

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

$$\hookrightarrow x^r (r^{1-x} - 1) \geq 0 \quad D_f = [0, 1]$$

$$\begin{array}{c|c} 0 & 1 \\ \hline + & + \\ \hline \phi & \phi \end{array}$$

$$\hookrightarrow r^{1-x} = 1 \Rightarrow 1-x=0 \Rightarrow x=1$$

$$f(x) = \sqrt{x + |x+r|}$$

$$f(-x) = \text{پایه}$$

-r

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

$$\begin{array}{c|c} r & \\ \hline -x-x+r & -x+x-r \\ \hline -2x+r & -r \\ \hline \end{array}$$

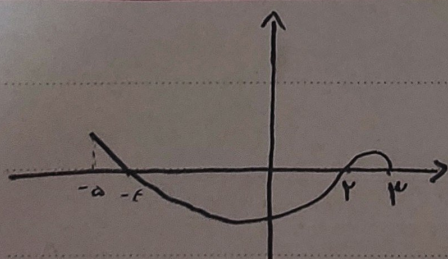
قرینه شده

$$-2x+r \geq 0$$

$$x(-x+1) \geq 0$$

$$\begin{array}{c|c} 1 & \\ \hline + & \phi \\ \hline \end{array}$$

$$D_f = (-\infty, 1]$$



$$y = \sqrt{\frac{x-1}{f(x)}} \rightarrow x = -1, 1, r$$

$$\begin{array}{c|c} -1 & 1 & r \\ \hline - & + & + \\ \hline \phi & \phi & \phi \end{array}$$

$$D_f = (-1, 1] \cup (1, r)$$

$$y_1 = \frac{1}{x^r - y^r - x - r}$$

$$y_r = \frac{1}{x^r + a x + b}$$

$$\sqrt{-(a+b)}$$

$$(x^r - y^r + 1) + (x^r + r x + r)$$

$$(x^r - 1)^r - (x+r)^r \neq 0$$

$$x^r - 1 = x+r \rightarrow x^r - x - r = 0$$

$$\begin{array}{l} x^r + a x + b \rightarrow a = -1 \\ \rightarrow b = -r \end{array}$$

$$\sqrt{-(-1-r)} = \sqrt{+1+r} = r$$

$$f(u) = a^u + a \quad y = \sqrt{f(u) - f\left(\frac{c}{a}\right)} \quad -a$$

$$y = \sqrt{a^u + a - \frac{4f}{a^u} - \frac{f}{a}} = \sqrt{\frac{1}{a^u}(a^u - 4f) + \frac{1}{a}(a^u - f)}$$

$$= \sqrt{\frac{1}{a^u}(a^u - f)(a^u + 4 + f a^u) + \frac{1}{a}(a^u - f)} = \sqrt{\frac{1}{a}(a^u - f)\left(a^u + \frac{4}{a^u} + a\right)}$$

(5)

$$D_g = [-r, 0) \cup [r, +\infty) \quad \frac{-r_0 + r}{-r + 0 - 0 +}$$

$$f(a^u + a) = r a^u - 1 \quad f(r) + f(1) \rightarrow 1 + v = \lambda \quad -4$$

$$a^u + a = r \rightarrow u = 1 \rightarrow f(r) = r - 1 = 1$$

$$a^u + a = 1 \rightarrow u = r \rightarrow f(1) = \lambda - 1 = v$$

(5)

$$f(u) = a^u - 4a^r + 12a + \lambda - 1 = (a - r)^u + 1 \quad g(\sqrt[r]{v} - r)$$

$$g(u) = a^u + 9a^r + rva + rv - rv = (a + r)^u - rv \quad f(\sqrt[r]{r} + r)$$

$$\rightarrow \frac{(\sqrt[r]{v} - r + r)^u - rv}{(\sqrt[r]{r} + r - r)^u + 1} = \frac{-r}{r + 1} = -r$$

(5)

$$f(a) = \sqrt{a + b\sqrt{a - c + d}} = \sqrt{(\sqrt{a - c} + r)^r} = \sqrt{a - c} + r \quad -1$$

$$g(a) = \sqrt{a - c} \sqrt{a - c} = \sqrt{(\sqrt{a - c} - r)^r} = \sqrt{a - c} - r$$

(5)

$$f(a) + g(a) = a + b\sqrt{a - c}$$

$$\rightarrow a = 0 \quad b = r \quad c = -c$$

$$\rightarrow \sqrt{a - c} + r + \sqrt{a - c} - r = r\sqrt{a - c}$$

$$\frac{a + b}{c} = \frac{0 + r}{-c} = -\frac{1}{r}$$

Date: / /

Sat Sun Mon Tue Thu Wed Fri

Subject: _____

$$f(x) = \frac{x+2}{x^2 - (x+3) = (x-1)(x-3)}$$

$$D_f = \mathbb{R} - \{1, 3\}$$

-9

$$g(x) = \{(2, 1) (1, 0) (3, 0) (0, 1)\}$$

(5)

$$\frac{g}{f} = \left\{ (2, \frac{1}{-1}) (0, \frac{\frac{1}{-1}}{\frac{1}{-1}}) \right\} = \left\{ (2, -1) (0, 1) \right\}$$

$$f(x) = \{(1, 2) (3, -1) (4, 2) (-1, 4)\}$$

-10

$$g(x) = \{(-2, 3) (1, -1) (4, 2) (-1, 0)\}$$

(5)

$$f(x) = \left\{ \left(\frac{1}{2}, 2 \right) \left(\frac{3}{2}, -1 \right) (4, 2) \left(-\frac{1}{2}, 4 \right) \right\}$$

$$f(x^2) = \{(\pm 1, 2) (\pm \sqrt{4}, -1) (\pm 2, 2)\}$$

$$2g^2(x) + 1 = ? \quad \{(-2, +19) (1, 4) (3, 9) (-1, 1)\}$$

$$\frac{2f}{g} = \left\{ (1, -4) (3, -1) \left(-\frac{1}{2}, \frac{4}{-1} \right) \right\} = \left\{ (1, -4) (3, -1) \right\}$$

تعريف