

$$y = \sqrt{x^3 f(x+1)} \Rightarrow D = [0, +\infty)$$

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

$$\begin{cases} \sqrt{-x+1} & -x+1 \geq 0 \Rightarrow x \leq 1 \\ 0 & -x+1 < 0 \Rightarrow x > 1 \end{cases} \Rightarrow D = (-\infty, 1]$$

$$f(x) \neq 0 \Rightarrow D_f \neq \{x, y, z\}$$

$$\frac{x-1}{f(x)} \geq 0$$

$$D = \mathbb{R} - \{x, y, z\}$$

$$\text{if } f(x) \geq 0 \Rightarrow x-1 \geq 0 \Rightarrow x \geq 1$$

$$\text{if } f(x) < 0 \Rightarrow x-1 < 0 \Rightarrow x < 1$$

$$x^2 = t \quad a t^2 - v t - \sqrt{t} - w$$

$$(0, +\infty) \xrightarrow{\text{جای}} \sqrt{f(x) - f\left(\frac{x}{k}\right)} \Rightarrow \sum I \cap I = (0, +\infty)$$

$$(\sqrt[3]{v}-u)^3 + 9(\sqrt[3]{v}-u)^2 + 12(\sqrt[3]{v}-u) = \frac{10}{-2\sqrt[3]{v}+2\sqrt[3]{u}}$$

$$v - 9\sqrt[3]{v}^2 + 12\sqrt[3]{v} - 9 + 9\sqrt[3]{v} + 12 + 12\sqrt[3]{v} - 12 = -11$$

$$v - 9\sqrt[3]{v}^2 + 12\sqrt[3]{v} - 11 + 9\sqrt[3]{v} + 12 + 12\sqrt[3]{v} - 12 = -11$$

$$(\sqrt[3]{v}+u)^3 - 9(\sqrt[3]{v}+u)^2 + 12(\sqrt[3]{v}+u)$$

$$v + 4\sqrt[3]{v}^2 + 12\sqrt[3]{v} + 1 - 4\sqrt[3]{v}^2 - 12\sqrt[3]{v} - 12 + 12\sqrt[3]{v} + 12 = -12\sqrt[3]{v} + 12$$

$$D_f = R - \{ \frac{x}{2} \} \Rightarrow \text{ریشه} = (x-u)(x-1) = \frac{x-u}{x-1}$$

$$R = \{1, 2\} \quad u=2 \Rightarrow f(x) = -$$

$$\frac{g}{f} = \frac{1}{2}$$

$$D_f = R - \{ \text{ریشه} \} \Rightarrow \text{ریشه} = (x-u)(x-1) = \frac{x-u}{x-1} \Rightarrow R = \{1, 2\}$$

$$\text{ریشه} = \{(2, 1), (0, 2)\} \quad u=2 \Rightarrow f(x) = \frac{x}{x-1+u} = -x$$

$$\frac{g}{f} = \{(2, -\frac{1}{2}), (0, 2)\} \quad \frac{1}{1+u} = \frac{1}{3}$$

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

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

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

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

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