

$$f(n) = \sqrt{n+1}$$

$$D_f = \left[-\frac{1}{e} + \infty\right)$$

$$f(n) = \begin{cases} n-1 & : [n] > 1 \rightarrow n > 1 = 1 \\ n+1 & : [n] \leq 1 \rightarrow n < 1 = 0 \end{cases}$$

قبل از حد کردن: $D_f = R - \{0\}$

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

در کجا؟ $n \neq -1$

$$f(n) = \begin{cases} \frac{n^2+n^2-n-1}{n^2-1} & : n \neq \pm 1 \\ \frac{n+1}{n+1} & : n = \pm 1 \end{cases}$$

$g(n) = n+1$

در جایی که $n=0$ ، $g(0) = 1$

اول در $n=0$ ، $f(0) = \frac{1}{1} = 1$ ، $g(0) = 1$

در $n=1$ ، $f(1) = \frac{1}{0}$ ، $g(1) = 2$

در $n=-1$ ، $f(-1) = \frac{0}{0}$ ، $g(-1) = 0$

اگر $a+b=0$ ، $a+b=0$

$f(n) = (n-1)^2(n+1)$

$g(n) = f(n+1) + f(1-n)$

$g(n) = -n^2$

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

$$f(1-x) = \begin{cases} \sqrt{x} & x \leq 1 \\ \sqrt{x} & x > 1 \end{cases}$$

$$1-f(x) = -1 \Rightarrow x = -1 \rightarrow 2$$

$$1-f(x) = 1 \Rightarrow x = -1 \rightarrow 1$$



$$f(x + \sqrt{x}) = x^2 + x \quad f(x) = 1-f(x) \text{ ; م د م}$$

$$x = 2$$

$$\Rightarrow 1(x+1) = 1 \cdot 2 \checkmark$$

$$f(x) = x^2 + x \Rightarrow x(x+1)$$

$$f(1-x) + f(x-1) = ? \Rightarrow (x-1)(x^2 + x - 1) = ?$$

$$\Rightarrow -(x-1)(x^2 - (x+1)) = ?$$

$$0 = 2 - 1 = 1$$

$$f(x) = \sqrt{x - x_0} + k - 1$$

$$g(x) = \sqrt{x - x_0} + k$$

$$f(x) = g(x)$$

$$x - x_0 \geq 0 \Rightarrow x \geq \frac{x_0}{2}$$

$$b - x_0 \geq 0 \Rightarrow x \leq \frac{b}{2}$$

$$(x=1) \leftarrow \left\{ \frac{x_0}{2}, \frac{b}{2} \right\}$$

$$f(x) = g(x)$$

$$f(1) = k - 1$$

$$g(1) = k$$

$$f(x) - g(x) = -k - 1$$

$$a \leq \frac{x_0}{2}$$

$$b \geq \frac{b}{2}$$

$$k = 1$$

$$f(x) = \sqrt{x - x_0} + h \quad D_{f \circ g} = [-1, \sqrt{v}]$$

$$g(x) = \sqrt{x + c}$$

$$x + c \geq 0 \Rightarrow x \geq -1$$

$$D_g = [-1, +\infty)$$

$$D_{f \circ g} = [-1, m] \cap [-1, v]$$

$$x - x_0 \geq 0$$

$$x \geq a \quad D_f = [-a, m]$$

$$f - g(x) = \sqrt{x} \Rightarrow f(x) = \sqrt{x} \Rightarrow x + h = m \Rightarrow \sqrt{x} = m - h$$

$$|m + h| = \sqrt{x} + 0$$