

٢. آخرين

صلياً توكليان

$$2F(a) = F(-2) + a \Rightarrow 2(a+1)(7) = 12a - 4 + a$$

-1

$$14a + 14 = 13a - 4$$

$$1 \cdot a = -18 \quad a = -18$$

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

-2

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

$$\left(\sqrt{2-\sqrt{2}} + \frac{1}{\sqrt{2-\sqrt{2}}} \right)^2 = 2 \left(\sqrt{2+\sqrt{2}} + \sqrt{2-\sqrt{2}} \right)^2$$

$$\downarrow$$

$$\sqrt{2+\sqrt{2}} + \sqrt{2-\sqrt{2}} + 2$$

$$\sqrt{(\sqrt{2+\sqrt{2}} + \sqrt{2-\sqrt{2}})^2} = \sqrt{2+\sqrt{2} + 2\sqrt{2-\sqrt{2}} + 2-\sqrt{2}} = \sqrt{4} = 2$$

$$\Rightarrow (\sqrt{4} + 2) \cdot 2 = 2\sqrt{4} + 4$$

$$y f(-n) - y f(n) = \epsilon n^2 + n \times y \rightarrow y f(-n) + f(n) = 1 + \epsilon n^2 + n$$

$$y f(n) - y f(-n) = \epsilon n - n \times y \rightarrow y f(-n) + y f(n) = 1 + \epsilon n^2 - n$$

$$- \Delta \quad L(n) = 1 + \epsilon n^2 + n$$

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

$$n=0 \Rightarrow y f(0) = y m - 1 \times -y$$

$$n=-y \rightarrow y f(0) = 1y + ym + ym-1 \quad \} \Rightarrow$$

$$- y f(0) = -9m + y$$

$$y f(0) = 9m + 10$$

$$9m = 11 \quad m = \frac{9}{y}$$

$$f(0) = \frac{ym-1}{y} = \frac{y \cdot \frac{9}{y} - 1}{y} = 1$$

$$\boxed{\frac{y \Delta}{\epsilon}}$$

$$n=-1 \Rightarrow y f(-1) = \frac{y+1y+y}{-1}$$

$$y f(-1) = -11$$

$$f(-1) = -9$$

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

$$\Delta \quad \text{برابر} \quad - \quad \epsilon$$

$$g(n) = -\sqrt{(1-n)^n} \Rightarrow -\sqrt{(1-n)^n(1-n)} \Rightarrow -(1-n)\sqrt{1-n}$$

$$\Rightarrow (n-1)\sqrt{1-n}$$

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

در ۲ - ۷

$$g(n) = \sqrt{n^3} \Rightarrow \sqrt{n^3} \Rightarrow |n|\sqrt{n} \Rightarrow n\sqrt{n}$$

$$f(n) = \sqrt{[\sqrt{n} - [\sqrt{n}]]} \Rightarrow n \geq 0$$

$$\sqrt{n} \geq [\sqrt{n}] \Rightarrow$$

$$g(n) = \sqrt{n - |n|}$$

در ۲ - ۷

$$n \geq |n| \Rightarrow P_1 = [0, +\infty)$$

برای آنکه

$$a) \frac{f(1) + g(1)}{f(1) - g(1)} = \frac{2+1}{2-1} = 3$$

- 9

$$b) \frac{f(2) + g(2)}{f(2) - g(2)} = \frac{3+1}{3-1} = 2$$

$$c) 0 \times 1 = 0$$

۲

$$d) \begin{matrix} 2n-1=2 & n=1 & 2n-1=-2 \\ 2n-1=-1 & n=0 & n=-\frac{1}{2} \\ 2n-1=0 & n=\frac{1}{2} & 2n-1=3 & n=\frac{4}{2} \end{matrix}$$

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$$g(n) = \left\{ (1,1), (0,1), \left(\frac{1}{2}, 0\right), \left(\frac{1}{2}, 2\right), \left(\frac{4}{2}, -1\right) \right\}$$

$$\rightarrow |n|=2 \Rightarrow n=\pm 2, |n|=-1, |n|=0, |n|=3, |n|=4$$

$$h(n) = \left\{ (2,1), (-2,1), (0,0), (2,-1), (-2,-1) \right\}$$