

$$r f(0) = f(-r) + a$$

$$r((a+r)(v)) = ra - \Sigma + a$$

$$12a + 12 = 9a - \Sigma \quad 10a = -12 \quad a = -\frac{12}{10}$$

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

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

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

$$\Sigma + \sqrt{r + \sqrt{r}} + \sqrt{r - \sqrt{r}} + \frac{\sqrt{r + \sqrt{r}} + \sqrt{r - \sqrt{r}}}{\sqrt{\Sigma - r}} = \Sigma + r\sqrt{4}$$

$$(\sqrt{r + \sqrt{r}} + \sqrt{r - \sqrt{r}}) = ? \quad r + \sqrt{r} + r - \sqrt{r} + r = 9 = \sqrt{9}$$

$$r \times r f(n) - r f(-n) = \Sigma n^r - n$$

$$r \times r f(-n) - r f(n) = \Sigma n^r + n$$

$$\Sigma f(n) = 9 f(-n) = 12n^r - rn$$

$$9 f(-n) - 9 f(n) = 12n^r + rn$$

$$-8 f(n) = 10n^r + n$$

$$f(0) = 9$$

$$f_0 = r f(0) = \frac{r^m - 1}{r}$$

$$f(-r) = 9 f(0) = 19 + rm + rm - 1$$

$$9 \left(\frac{r^m - 1}{r} \right) = 10 + am$$

$$9m - r = 10 + am$$

$$f(0) = \frac{r^m - 1}{r} = \frac{r^m - 1}{r} =$$

از ردهم سید B

پارسا محمدی

$$f(n) = an + b$$

$$f\left(\frac{1}{n}\right) = \frac{a}{n} + b$$

$$f(n) + f\left(\frac{1}{n}\right) = \frac{3n^2 - 12n + 3}{n}$$

-8

$$an + b + \frac{a}{n} + b = an + \frac{a}{n} + 2b$$

$$\frac{3n^2 - 12n + 3}{3n^2} \mid \frac{n}{3n - 12 + \frac{3}{n}}$$

$$an + \frac{a}{n} + 2b = 3n - 12 + \frac{3}{n}$$

$$a = 3$$

$$b = -9$$

$$f(-1) = 3(-1) - 9 = -12$$

د

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

$$1-n \geq 0 \quad n \leq 1$$

-9

د هموارانند

$$g(n) = -\sqrt{(1-n)^3} \quad (1-n)^3 \geq 0 \quad 1-n \geq 0 \quad n \leq 1$$

$$\sqrt{(1-n)^2(1-n)}$$

$$n \leq 1$$

$$n - 1\sqrt{1-n}$$

س برابرند

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

$$D = n \geq 0$$

$$n\sqrt{x}$$

-7 برابرند

$$= \sqrt{n^2 x}$$

n

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

$$D = n \geq 0$$

$$\sqrt{n^2 x n} = |n| \times \sqrt{x}$$

$$= |n| \times \sqrt{x}$$

س در تابع با هم برابرند

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

$$x \geq 0$$

-8

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

$$n - |n| \geq 0$$

$$|n| \leq n$$

$$[\sqrt{n}] - [\sqrt{n}] \rightarrow n \geq 0$$

همواره صفر

$$n \geq 0$$

برابرند

I دانی $\sqrt{x}[\sqrt{x}]$ همواره س $0 \leq B \leq 1$

$$\sqrt{n - |n|} \rightarrow n \geq 0$$

همواره صفر

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

$g = \{(1, 1), (2, 3), (3, 5), (0, 2), (1, 5)\}$

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

$\frac{f+g(2)}{f-g} = (2) \rightarrow \frac{3+3}{3-3} \rightarrow \text{صفر}$

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دقت!

$f(0)g(-1) = 1 \quad f(1) \times g(-1) = 0 \times 1 = 0$

$f = \{(2, 1), (-1, 4), (0, 5), (-2, 2), (3, -1)\}$

$g(m) = f(m-1)g(m) \rightarrow \left\{ \left(-\frac{1}{3}, 2\right), (0, 4), \left(\frac{1}{3}, 5\right), \left(\frac{2}{3}, -1\right) \right\}$

$h(m) = f(1-m) \rightarrow h(-2) = f(1-(-2)) = f(3) = -1$

$h(m) = \{(-3, -1), (-2, 2), (0, 5), (2, 1), (3, -1)\}$

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

(9)

$\frac{f(2)+g(2)}{f(2)-g(2)} = \frac{3+3}{3-3} = \frac{6}{0}$

$f(1) \times g(-1) = 0 \times 1 = 0$