

$$r(a+1)(u) = ra - r + a$$

$$1(a+1)r = ra - r \Rightarrow a = -1$$

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

$$f(r+r) = \sqrt{r+r} \cdot \frac{1}{\sqrt{r+r}} = \sqrt{r+r} + \sqrt{r+r} + r$$

$$\begin{aligned} \rightarrow Ar &= r(r+\sqrt{r}+r-\sqrt{r-r}) + r(\sqrt{r+r}+\sqrt{r-r}) = A \\ &= A = \cancel{r} + r\sqrt{4} \\ \text{باب} &= r + r\sqrt{4} \end{aligned}$$

$$r f(a) - r f(-a) = \varepsilon a r - a$$

$$\begin{aligned} \times \frac{r}{r} \left(\begin{aligned} r f(a) - r f(-a) &= \varepsilon a r + a \\ r f(a) - r f(-a) &= 4 a r + \frac{r}{r} a \end{aligned} \right) \end{aligned}$$

$$\begin{aligned} -r, a f(a) &= 1 a r + \frac{1}{r} a \\ f(a) &= -\varepsilon a r - \frac{1}{a} \end{aligned}$$

$$n = -r \rightarrow \frac{f(-r)}{r} = \frac{f(0)}{r} = \frac{r(-r)^r - (-r)^m + r_{m-1}}{r}$$

$$\begin{aligned} \rightarrow r f(a) &= 1 a + 0 m + r \Rightarrow r f(a) = \frac{a}{r} m + a \\ r f(a) &= r_{m-1} \end{aligned}$$

$$\Rightarrow f(a) = \frac{1}{r} \left(\frac{r_{m-1}}{r} - 1 \right) = \frac{r_{m-1}}{r} - \frac{1}{r}$$

$$\begin{aligned} r_{m-1} &\leq \frac{a}{r} m + a \\ \frac{r}{r} m &\leq 4 \quad m \leq \frac{r}{4} \end{aligned}$$

$$am + b + \frac{a}{m} + b = \frac{r_{m-1} r - 1 r_{m-1} + r}{a}$$

$$\begin{aligned} \rightarrow r_{m-1} r + \frac{r}{m} &= am + \frac{a}{m} + r b \Rightarrow a = r \\ r b &= -1 \quad b = -4 \end{aligned}$$

$$\rightarrow f(m) = r_{m-4} \quad f(-1) = -r - 4 = -9$$



① ضابطه $f(n) = (n-1)\sqrt{1-n}$

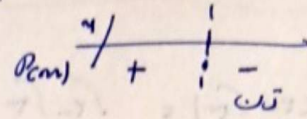
$g(n) = -\sqrt{(1-n)^3} = -|1-n|\sqrt{1-n}$

گ) $g(n)$ کد
منفی یا صفر است

$a, n < 1 \Rightarrow (n-1)\sqrt{1-n}$

ضابطه کد تابع می شود
در بازه ازاد و ازاد جابجا

$Dg =$



$Dg = Df = (-\infty, 1]$

پ

$Df = [0, \infty)$

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

$Dg = [0, \infty)$

$g(n) = |n|\sqrt{n} \Rightarrow n\sqrt{n}$
($g(n) \geq 0$)

بلبریتند
زیرا ضابطه دامنه آن یکجاست

پ

$Df = [0, \infty)$

$0 \leq a - [a] < 1 \Rightarrow [a - [a]] = 0$

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

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

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

$a, Dg = Df$

$n \in [0, \infty)$

م = 2 بازه

بلبریتند

مقدار کد را کنیم

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

ا. د.

موردی است

پ

$g = \{(-1, 1), (1, 1), (2, 2), (3, 2), (4, 2), (\sqrt{5}, 1)\}$

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

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

ب) $\frac{f(2) + g(2)}{f(2) - g(2)} = \frac{3 + 2}{3 - 2} = 5$

2. $f(4)g(-1) = (0)1 = 0$

پ

الف) $g(n) = \{ (1, 1), (2, 2), (3, 2), (4, 2), (5, 2), (6, 2) \}$

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

ب) $h(n) = f(|n|) = \{(2, 1), (4, 4), (3, -1)\}$

$h(n) =$

$h(n) = \{(2, 1), (4, 4), (3, -1), (-2, 1), (-3, -1)\}$

یعنی بازه 2- و بعد 2 به دست می آید

پ