

ایسی روش

$$f(u) = \int (u+1)(u+v) ; u)1 \rightarrow \underbrace{v f(0) - f(v)}_{\uparrow} + a$$

$\boxed{w a + r u} ; u \nmid 1 \rightarrow r(a+1)(v) = w a - r + a \rightarrow 1 \leq a + r = a - r \rightarrow a = -1$
 $\boxed{a = -1, 1}$

$f(u) = \sqrt{u} + \frac{1}{\sqrt{u}} + v$, $f(v - \sqrt{u}) + f(v + \sqrt{u}) = ?$ جواب دو مرتبه در زیر است

$$\lim_{n \rightarrow \infty} \frac{n+1}{\sqrt{n}} + r \rightarrow \frac{(r-\sqrt{r})}{\sqrt{r-\sqrt{r}}} + \frac{(r+\sqrt{r})}{\sqrt{r+\sqrt{r}}} = \frac{(r-\sqrt{r})(\sqrt{r+\sqrt{r}}) + (r+\sqrt{r})(\sqrt{r-\sqrt{r}})}{\sqrt{r-\sqrt{r}} \sqrt{r+\sqrt{r}}} + \epsilon$$

$$\sqrt{(r-\sqrt{r})(r+\sqrt{r})} + \sqrt{(r+\sqrt{r})(r-\sqrt{r})} + \epsilon = \sqrt{r(r-\sqrt{r})} + \sqrt{r(r+\sqrt{r})} + \epsilon$$

$$r\sqrt{r} + \epsilon = r(\sqrt{r} + r)$$

$$v f(x) - v f(-x) = x a^x - x \rightarrow f(x) = ?$$

$$\begin{cases} (4\phi(u) - 2\phi(-u) = 4u^2 - u) \times 4 \rightarrow 4\phi(u) - \cancel{4\phi(-u)} = 4u^2 - 4u \\ (4\phi(-u) - 2\phi(u) = 4u^2 + u) \times 2 \rightarrow \cancel{4\phi(-u)} - 2\phi(u) = 4u^2 + 2u \end{cases}$$

$$-\delta f(u) = 40m^2 + u \rightarrow f(u) = -40m^2 - \frac{u}{5}$$

$$(u+r) \psi(u) - u \psi(u+r) = r u' - u u' + u u' - u$$

$$\begin{aligned} \xrightarrow{u=0} & \quad u f(0) = 0m - 1, \quad \xrightarrow{u=-x} \quad u f(0) = 1u + 2m + 0m - 1 \\ & \quad \hookrightarrow u f(0) = 4m - 4 \qquad \qquad \qquad u f(0) = 10 + 0m \rightarrow 10 \end{aligned}$$

$$4 \text{ } \varphi(a) = 10 + 5m \rightarrow 10 + 5m = 4m - 10$$

$$f(0) = \frac{w}{r} u - \frac{v}{r} \rightarrow f(0) = \frac{w}{r} \times \frac{r}{2} - \frac{v}{r} \rightarrow f(0) = \frac{rw}{2} - \frac{v}{r} = \frac{r}{2} \left(\frac{w}{r} - \frac{v}{r} \right) = \frac{r}{2} \left(\frac{w-v}{r} \right) = \frac{w-v}{2}$$

$$f(u) + f\left(\frac{1}{u}\right) = \frac{u^2 - 1}{u} + 0 \quad , \quad f(-1) = ? \quad f(u) = au + b$$

$$a^2 + \frac{a}{n} + \epsilon b = \frac{w n^2 - 1 \epsilon n + n}{n} \rightarrow \frac{a n^2 + \epsilon b n + a}{n} = \frac{w n^2 - 1 \epsilon n + n}{n}$$

$$a = 4 \text{ und } b = -4 \rightarrow f(x) = 4x - 4 \rightarrow f(-1) = 4(-1) - 4 \rightarrow f(-1) = -8$$

$$f(u) = (u-1)\sqrt{1-u} \quad , \quad g(u) = -\sqrt{(1-u)^p}$$

$$1-u \geq 0 \rightarrow 1 \geq u \quad \quad \quad 1-u \geq 0 \rightarrow 1 \geq u$$

(۵) حیدر استقامت بخیر و مایل صاحب $D_f = D_g$

دکھان عن و انتی

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

$$g(u) = \sqrt{u^4}$$

$$Df = Dg$$

$$\begin{aligned} \frac{a=0}{a=1} &\rightarrow \begin{aligned} &g(0)=0 \quad f(0)=0 \\ &f(1)=\sqrt{1} \quad g(1)=\sqrt{1} \end{aligned} \end{aligned}$$

ضابطہ صاحب مجلس (علی) کے ہیں دو کتابیں ہیں

$$f(u) = [\sqrt{u} - \lfloor \sqrt{u} \rfloor] \quad , \quad g(u) = \sqrt{u - |u|}$$

$$u \geq 0$$

$$u - |u| > 0 \rightarrow u > |u| \rightarrow u > 0$$

$$f(u) = [\sqrt{u}] - \lfloor \sqrt{u} \rfloor = 0$$

$$g(u) = \sqrt{u - |u|} \rightarrow R_g = 0$$

$$R_f = 0$$

دست بردار

$$f\{(1,2), (2,3), (3,1), (0,0)\} \quad , \quad g\{(-1,1), (1,1), (2,3), (3,5), (5,7), (7,9)\}$$

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

$$\text{ب) } \left(\frac{f+g}{f-g} \right)(2) = \frac{f(2)+g(2)}{f(2)-g(2)} = \frac{3+3}{3-3}$$

$$\text{ج) } f(0)g(-1) = 0 \times 1 = 0$$

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

$$\text{الف) } = g(u) = f(3u-1)$$

$$3u-1=2 \rightarrow u=1$$

$$3u-1=-1 \rightarrow u=0$$

$$3u-1=3 \rightarrow u=\frac{4}{3}$$

$$3u-1=0 \rightarrow u=\frac{1}{3}$$

$$3u-1=-2 \rightarrow u=-\frac{1}{3}$$

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

$$\text{ب) } u(u) = f(|u|) \rightarrow \begin{matrix} |u|=2 \rightarrow u=\pm 2 \\ |u|=1 \rightarrow u=\pm 1 \end{matrix} \quad \begin{matrix} |u|=0 \rightarrow u=0 \\ |u|=2 \rightarrow u=\pm 2 \\ |u|=-2 \rightarrow u=\pm 2 \end{matrix}$$

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