

۱۰. سَنَاسُ عَرُوفٍ زَادَ دَوَاهِمَ دَعْدَ A كَلِيفٍ ۳۰ :



$$y = \sqrt{f(z) - z + 1} \rightarrow f(z) = z + 1 - y^2$$

I) $n \geq 0$ $\quad x_n = 1 - n \cdot 1 \cdot \rightarrow x_n = 0 \quad \Rightarrow \quad n \geq 0$

دفعہ ۲۰

$$\Rightarrow D_f = \sqrt{\frac{1}{2}}, \dots$$

④

$$D_g = \mathbb{R} - \left\{ -\frac{1}{x} \right\}$$

⑦

$$\Rightarrow C = Y \quad \checkmark$$

$$\underline{2 \div 1 \rightarrow \frac{a+r}{1+b} = r \rightarrow a+r = rb+r}$$

$$z = -1 \rightarrow \frac{-a+y}{-1+b} = 1 \rightarrow -a+y = -1+b$$

$$F = r + r^2 b$$

→ $\frac{1}{2}$ ✓

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

$$g(n) = \frac{n^2-1}{n^2+an+b} = \frac{(n-1)(n+1)}{(n-1)^2}$$

$$\rightarrow c=1$$

$$\rightarrow x^2-2x+1 \rightarrow a=-2, b=1$$

$$a+b+c = -2+1+1=0$$

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

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

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

$$= n((n-1+n+1)(n-1-n-1)) = n(2n)(-2) = -4n^2$$

$$f(1-2n) = \sqrt[3]{1-2n} + 2 \quad n \leq 0$$

$$1-2n = -1 \rightarrow n=1$$

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

$$f(-1) + f(1) = \sqrt[3]{-1} + \sqrt[3]{1} + 2 = -1 + 1 + 2 = 2$$

$$f(x+\sqrt{n}) = n^{\frac{1}{3}} + \sqrt{n}$$

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

$$f(4) = \sqrt[3]{(4-x)^2} + (4-x) = \sqrt[3]{16-8x+x^2} + 4-x$$

$$f(n) = n^{\frac{1}{3}} + n$$

$$f(n-1) + f(1-n) = (n-1)^{\frac{1}{3}} + (n-1) - (n-1)^{\frac{1}{3}} - (n-1) = 0$$

$$f(n) = \sqrt{a-n} + k-1 \rightarrow D_f = \{x \mid x \geq \frac{a}{k}\} \quad \frac{a}{k} = 1 \rightarrow a=k$$

$$g(n) = \sqrt{b-kn} + k \rightarrow D_g = \{n \mid n \leq \frac{b}{k}\} \quad \frac{b}{k} = 1 \rightarrow b=k$$

$$f-g = \{(1, k)\} \rightarrow k-k-1 = k \rightarrow -k-1 = k \rightarrow k=-1$$

$$-a = \frac{b}{k} - k = 1 - 1 = 0$$

4- چون فرغ هو در باره ا، ای یه عدد c فرستود پس
در فرغ $g(n)$ هر بار که یه عدد $(n-1)$ باشه
بصورت خط غوره هم باید ا، کردانه ان باشه

پس: $1+x = (n-1)^2$ (2)

$-n-2$ (2) - 3

(2) - 4

$f(4) = 9$ (2) - 5

(2) - 6

$$f(x) = \sqrt{m-x} + x \rightarrow x \leq m \rightarrow x = \sqrt{m} \checkmark$$

$$g(x) = \sqrt{x+1} \rightarrow x \geq -1$$

$$D_{f \wedge g} = [-1, \sqrt{m}]$$

$$f-g(x) = 4\sqrt{x} \Rightarrow \sqrt{m-x} + x - \sqrt{x+1} = 4\sqrt{x} \rightarrow x = 4\sqrt{x} + \sqrt{x+1} - \sqrt{m-x}$$

$$= 4\sqrt{x} - x \checkmark$$

$$m+x = \sqrt{m} + 4\sqrt{x} - x = 2 + 4\sqrt{x} \checkmark$$

$$m+x = ? \quad -1 \checkmark$$

(2)