

Date: $\rightarrow n = \frac{y+1}{r} \xrightarrow{\text{S.P.}} y = \frac{r(n+1)}{r}$ (1)

Subject: $n=0 \rightarrow y = \frac{1}{r} / n = -\frac{1}{r} \rightarrow y = 0 \quad S = \frac{1}{r} \times \frac{1}{r} = \frac{1}{r^2}$

(2) الف $n \in [1, +\infty) \quad \frac{b}{r(n)} = 1 \quad n = \sqrt{y-2} \rightarrow y = \sqrt{n-2} + 1$

$n=1 \rightarrow y=2 \rightarrow R[2, +\infty) = D_f^{-1}$ وارڈن پیئر

(3) ب $n \in [2, +\infty) \quad \frac{b}{r(n)} = 1$ وارڈن پیئر

$y^{-1} = \sqrt{n-2} - 1 \rightarrow R_f = D_f^{-1} = [4, +\infty)$

(4) ج $y = \frac{n}{\sqrt{n^2-4}} \rightarrow \frac{n^2}{n^2-4} = \frac{n^2}{n^2-4}$ جملہ بنو

$D_f = (-\infty, -\sqrt{4}) \cup (\sqrt{4}, +\infty)$

$n_1^2, n_2^2 - 4n_1^2 = n_1^2 n_2^2 - 4n_2^2 \rightarrow |n_1| = |n_2|$

درجہ اولیٰ تابع

$y^2 = \frac{n^2}{n^2-4} \rightarrow n^2 = \frac{4y^2}{y^2-1} \rightarrow y = \pm \sqrt{\frac{4n^2}{n^2-1}}$ سو لیں

(5) $g(n) = \begin{cases} n^2 - 5n + k & n \geq 2 \rightarrow [k-5, +\infty) \\ -n^2 - 4n + k & n \leq 2 \rightarrow (-\infty, k+1) \end{cases}$

$1 + 4k \leq k - 5 \rightarrow k \leq -6$

(6) $f(n) = \begin{cases} rk + n & n \geq 0 \rightarrow y = \frac{1}{r} n \rightarrow [0, +\infty) D_f^{-1} \\ n^2 + 2n & n \leq 0 \rightarrow y = \frac{1}{r} n \rightarrow (-\infty, 0) D_f^{-1} \end{cases}$

$f^{-1}(n) = a|n| + b \quad n \geq 0 \quad (a+b)|n| \rightarrow a+b = \frac{1}{r}$

technofanar.com $n \leq 0 \quad (a-b)|n| \rightarrow a-b = \frac{1}{r}$

$a+b = \frac{r}{1} \times \frac{1}{r} = 1 \rightarrow \frac{r}{4r} \quad a = \frac{r}{1} / b = \frac{1}{1}$

$$f = \frac{3n+6}{n+5} \xrightarrow{15}$$

مانا فنر مهمام

با نام تجاری **تکنو فنر**

$$-10 - 10m = 10 \rightarrow m = -1 \rightarrow \frac{3n+6}{n-1} = \frac{an+b}{cn+d}$$

$$f-1 = \frac{3n+6}{n-1} \rightarrow \text{for } (n) \rightarrow n \in \mathbb{R} \setminus \{1\}$$

$$\text{for } f-1(n) + f-1(2) = n + \frac{3n+6}{n-1}$$

$$y = \frac{3n+6}{n-1} = n \rightarrow n = \left[\frac{6}{2} \right]$$

۸) راجله بنودم خیی روش فکر کردم به نتیجه یعنی سه حلیم

$$y = \frac{5n-13}{1-n} \rightarrow y = \frac{5n-13}{1+n}$$

$$y = \frac{5(n-2)+13}{1+n-2} \rightarrow \frac{5n+3}{n-1} - 2 = \frac{y+6}{2-1}$$

$$n = \frac{y+6}{y-2} \rightarrow y = \frac{n+4}{n-1}$$

$$f(n) = f^{-1}(n) \Rightarrow \frac{3n+4}{n-1} = \frac{n+4}{n-2} \rightarrow n = \frac{4 \pm \sqrt{33}}{2}$$

$$n_1 + n_2 = \frac{4}{1} = 4$$

$$y = n + f[n]$$

$$y = n + \frac{f[y]}{a} \rightarrow n = y - \frac{f[y]}{a} \rightarrow y = n - \frac{f[n]}{a}$$

$$f - g = f, n[n]$$

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