

$y = \frac{2n-1}{3}$ Date: $\rightarrow n = \frac{3y+1}{2}$ Subject: $y = \frac{2n+1}{3}$

$n=0 \rightarrow y = \frac{1}{3}$ / $n = -\frac{1}{2} \rightarrow y = 0$ $S = \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$

$n \in [1, +\infty) \rightarrow \frac{b}{a} = 1$ $n = \sqrt{y-2}$ $y = \sqrt{n-2} + 2$
 $n=1 \rightarrow y=2 \rightarrow R[2, +\infty) = D_f^{-1}$

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

$y = \frac{n}{\sqrt{2n-5}}$ $\rightarrow \frac{n^2}{2n-5} = \frac{n^2}{2n-5}$

$D_f = (-\infty, -\sqrt{5}) \cup (\sqrt{5}, +\infty)$
 $n_1, n_2 - 5n_1 = n_1 n_2 - 5n_2 \rightarrow |n_1| = |n_2|$

$y^2 = \frac{n^2}{2n-5} \rightarrow n^2 = \frac{y^2}{y^2-1}$ $\rightarrow y = \pm \sqrt{\frac{5n^2}{2n-1}}$

$g(n) = \begin{cases} n^2 - 5n + k & n \geq 2 \rightarrow [k-5, +\infty) \\ -n^2 - 4n + k & n \leq 2 \rightarrow (-\infty, k+1) \end{cases}$
 $1 + 3k \leq k - 5 \rightarrow k \leq -6$

$f(n) = \begin{cases} 3k + n & n \geq 0 \rightarrow y = \frac{1}{3}n \rightarrow R \rightarrow [0, +\infty) \cap D_f^{-1} \\ 2n & n < 0 \rightarrow y = \frac{1}{2}n \rightarrow R \rightarrow (-\infty, 0) \cap D_f^{-1} \end{cases}$

$f^{-1}(n) = a|n| + b|n|$ $n \geq 0 \rightarrow (a+b)|n| \rightarrow a+b = \frac{1}{3}$
 $n < 0 \rightarrow (a-b)|n| \rightarrow a-b = \frac{1}{2}$

$a, b = \frac{5}{12} \times -\frac{1}{12} = -\frac{5}{144}$ $a = \frac{5}{12}$ / $b = -\frac{1}{12}$

$$f = \frac{km + c}{m + d} \xrightarrow{15}$$

مانا فنر مهمام

با نام تجاری **تکنو فنر**

$$-10 - 10m = 10 \rightarrow m = -1 \rightarrow \frac{km + c}{m + d} = \frac{am + b}{cm + d}$$

$$f - 1 = \frac{km + c}{m + d} \rightarrow \text{for } (m) \rightarrow m \in \mathbb{R} \setminus \{-d\}$$

$$\text{for } f - 1(m) + f - 1(a) = m + \frac{km + c}{m + d}$$

$$y = \frac{km + c}{m + d} = m \rightarrow m = \left[\frac{c}{d - k} \right]$$

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

$$y = \frac{am - 13}{1 - m} \rightarrow y = \frac{am - 13}{1 + m}$$

$$y = a \frac{(m - 1) + 13}{1 + m - 1} \rightarrow a \frac{m + 12}{m - 1} - 13 = \frac{y + 6}{2 - 1}$$

$$m = \frac{y + 6}{y - 13} \rightarrow y = \frac{m + 6}{m - 13}$$

$$f(m) = f^{-1}(m) \Rightarrow \frac{km + c}{m + d} = \frac{m + c}{m - d} \rightarrow m = \pm \frac{c \pm \sqrt{c^2 - kd}}{d}$$

$$m_1 + m_2 = \frac{c}{d} = 13$$

$$y = m + f[m]$$

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

$$f - g = f, 1[m]$$

techno_fanar