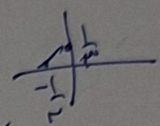


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نام و نام خانوادگی کلاس پاسخنامه تشریحی تکلیف شماره A

$$F^{-1} \Rightarrow P_{n+1} = y - 1 \rightarrow \frac{P_{n+1}}{n} = y$$

$$\begin{cases} y \leq 0 \rightarrow n \leq -1 \\ n \leq 0 \rightarrow y \leq \frac{1}{n} \end{cases}$$



$$S \leq \frac{1}{n} \leq \frac{1}{n+1} \Rightarrow \frac{1}{n} \leq \frac{1}{n+1}$$

۲

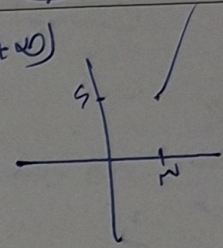
هست = انت
یاد برد

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

$$y' = 2(n-1) + 1$$

$$D_{F^{-1}} = [2, +\infty)$$

$$D_{F^{-1}} = [4, +\infty)$$



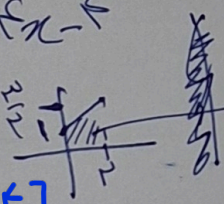
$$y' = \frac{x}{\sqrt{x^2 + 1}}$$

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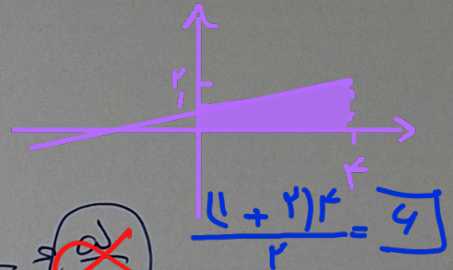
$$P_n - |P_n - 4| \rightarrow x \rightarrow y \rightarrow \text{والت}$$

$$x \leq 2 \rightarrow 4 - x$$

$$y' = \frac{x}{2} + 1$$



$$S = (1 + \frac{x}{2}) \cdot \frac{x}{2}$$



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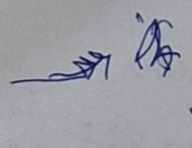
$$D = R_{F^{-1}} = (-\infty, 4]$$

$$D_n \rightarrow \mathbb{R} - [-\sqrt{5}, \sqrt{5}]$$

$$y^2(n^2 - 4) = x^2 - (y^2 - 1)n^2 = 4y^2$$

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$$x \leq \sqrt{\frac{4y^2}{y^2 - 1}}$$



$$1 < y < 1 \rightarrow y = + \sqrt{\frac{4x^2}{x^2 - 1}}$$

$$y = + \sqrt{\frac{4x^2}{x^2 - 1}}$$

n و y هم علامت!

$$F = 1 + R = -5 + 1 + 3R$$

$$R = -4$$

$$\text{if } R \leq -4 \rightarrow R = 1 \rightarrow$$

نویسند

۲

$$R \leq -4$$

$$R \in (-\infty, -4]$$

$$x \leq 2$$

مقوی

برای پاسخ

۵

$$\begin{aligned} n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} &\rightarrow f^{-1} = \frac{n}{f} \rightarrow a+b = \frac{1}{f} \\ n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} &\rightarrow f^{-1} = \frac{n}{f} \rightarrow a-b = \frac{1}{f} \end{aligned} \left. \vphantom{\begin{aligned} n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} \\ n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} \end{aligned}} \right\} \begin{aligned} a &= \frac{1}{f} \checkmark \\ b &= \frac{1}{f} \checkmark \\ ab &= \frac{1}{f^2} \checkmark \end{aligned}$$

$$(p, 10) \rightarrow \frac{10}{p+m} = -10 \quad \frac{p+m}{p-m} = a = -d \rightarrow f = f^{-1}$$

$$n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} \rightarrow f \in \mathbb{Z} \rightarrow n = -\frac{f}{m} \checkmark$$

$$f(p, m) = t \xrightarrow{f^{-1}} p, m = f^{-1}(t) \rightarrow n = \frac{p - f^{-1}(t)}{r}$$

$$g(\frac{r}{f}) = r - t \xrightarrow{g^{-1}} \frac{r}{f} = g^{-1}(r - t) \rightarrow n = r g^{-1}(r - t)$$

$$\frac{r - f^{-1}(t)}{r} = r g^{-1}(r - t) \xrightarrow{t = -r} r - f^{-1}(-r) = r g^{-1}(r) \xrightarrow{\text{جواب}} \boxed{r}$$

$$F = \frac{p n + 4}{n - 1} \quad f^{-1} = \frac{4 + n}{n - p}$$

$$\begin{aligned} p n^p - 1 p + p n &= n^p - 4 + p n \\ n^p - p n - 4 &= 0 \end{aligned} \quad (S = p) \checkmark$$

$$n \in \mathbb{Z} \rightarrow f \in \mathbb{Z} \rightarrow f^{-1} = \frac{n}{f} \quad n \notin \mathbb{Z} \rightarrow f \in \mathbb{Z} \rightarrow f^{-1} = \frac{n + f}{f}$$

$$g(n) = f^{-1}$$

$$f = g(n) \left\{ \begin{aligned} n \in \mathbb{Z} &\rightarrow \frac{p n - p f}{p \omega} \\ n \notin \mathbb{Z} &\rightarrow \frac{p n - p f}{p \omega} \end{aligned} \right.$$

(۱۵)

قدیمه نمودار نسبت به $y = u$ همان طارون تابع است

برای طارون کردن نتایج!

$$y = u + f[u]$$

از طرفین
برگشت میگیریم

$$[y] = [u] + f[u] = \frac{5}{5}[u] \rightarrow [u] = \frac{[y]}{5}$$

جابجایی

$$y = u + f\left(\frac{[y]}{5}\right) \rightarrow u = y - f\left(\frac{[y]}{5}\right) \xrightarrow{\text{طارون}} y = u - \frac{f[u]}{5}$$

$$(f - g)(u) = u + f[u] - u + \frac{f}{5}[u] = \frac{f, 1}{5}[u]$$