

دراز دهم دهم

هانس نوسان

تاریخ ماه ۱

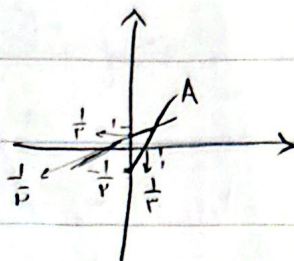
تابع وارده است  
حل مارتین

$$\frac{1}{2}y = x - 1 \Rightarrow y = \frac{2}{1}x - \frac{1}{1} \Rightarrow \frac{2}{1}x = y + \frac{1}{1} \Rightarrow x = \frac{1}{2}y + \frac{1}{2} \quad (1)$$

A

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

B

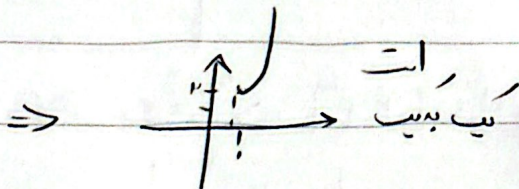
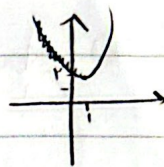


میان  
صافه

$$\Rightarrow \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

= (1/4)

الف)  $y = x^2 - 2x + 3, x \in [1, +\infty) \Rightarrow$



$x_{\min} \Rightarrow \frac{-b}{2a} =$   
 $\frac{2}{2} = 1 \Rightarrow y_{\min} = 2$

تابع  
تابع

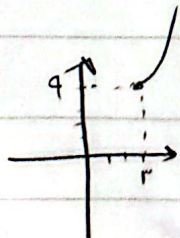
$$\Rightarrow y = x^2 - 2x + 3 \Rightarrow (x-1)^2 + 2 \Rightarrow y = (x-1)^2 + 2$$

$$\Rightarrow x = (y-2)^2 + 1 \Rightarrow x-1 = (y-2)^2 \Rightarrow \sqrt{x-1} = y-2$$

تابع  
تابع

$$\Rightarrow y = \sqrt{x-1} + 1 \Rightarrow D_y = [2, +\infty)$$

ب)  $y = x^2 - 2x + 3 \Rightarrow$   
 $[2, +\infty)$



تابع  
تابع

$$\Rightarrow y = (x-1)^2 + 2 \Rightarrow x = (y-2)^2 + 1 \Rightarrow x-1 = (y-2)^2$$

تابع  
تابع

$$\Rightarrow \sqrt{x-1} + 1 = y \Rightarrow \sqrt{x-1} = y-1 \Rightarrow x-1 = (y-1)^2 \Rightarrow x = (y-1)^2 + 1$$

(4)

Date:

Sub:

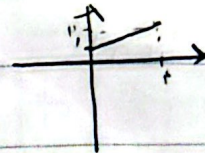
$$f(n) = 2n - \sqrt{14 - f_n(f_n)} \Rightarrow \text{بالإشارة} \Rightarrow 14 - 14n + n^2 \quad (3)$$

$$\Rightarrow (n-1)^2 \Rightarrow \sqrt{(n-1)^2} = |n-1| \Rightarrow f(n) = 2n - 2|n-1|$$

$$f(n) = \begin{cases} 1 & n \geq 2 \\ n-1 & n \leq 2 \end{cases} \Rightarrow \text{بالإشارة} \quad \text{بالإشارة} \quad \text{بالإشارة}$$

$$\Rightarrow \text{بالإشارة} \Rightarrow y = n-1 \Rightarrow y+1 = n \Rightarrow \frac{y+1}{1} = n$$

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



$$D_{f^{-1}} = [-1, 1] \Rightarrow \text{بالإشارة} \Rightarrow (0, 1)$$

بالإشارة،

$$\frac{1 \times 1}{1} = \boxed{1} \text{ value}$$

Date:

Sub:

باید و اولاً باید

$$y = \frac{2n-1}{1+n} \xrightarrow{\text{تبدیل به صورت کسری}} y = -\frac{2n-1}{1+n} \xrightarrow{\text{انتقال کسری}}$$

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$$y = -\frac{2(n-1)-1}{1+(n-1)} - 1 \Rightarrow \frac{-2n+2-1}{n-1} = -\frac{2n-1}{n-1} = -\frac{2n-1}{n-1}$$

$$\Rightarrow f^{-1} = y = -\frac{2n-1}{n-1} \Rightarrow yn - y = -2n \Rightarrow yn + 2n = -y$$

$$\Rightarrow n(y+2) = -y \Rightarrow n = \frac{-y}{y+2} \Rightarrow y = \frac{n}{n+2}$$

$$\Rightarrow \text{تبدیل به صورت کسری} \Rightarrow \frac{-2n-1}{n-1} = \frac{n}{n+2} \Rightarrow -2n^2 - 1n = n^2 + 2n$$

$$-2n^2 - 1n = n^2 + 2n \Rightarrow -3n^2 - 3n = 0 \Rightarrow -3n(n+1) = 0 \Rightarrow n = -1$$