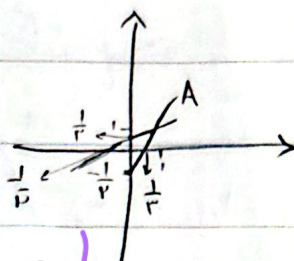
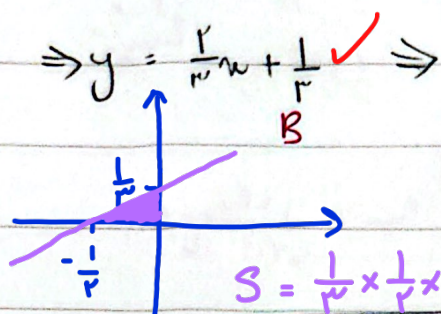


دراز و سه مصر

هائیکو

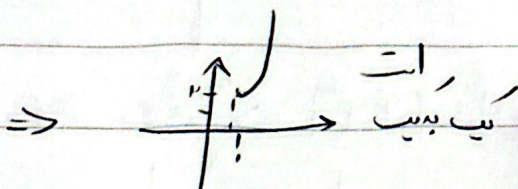
تایید شده

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



$$\Rightarrow \text{مساحت} = \frac{1}{2} \times \frac{1}{1} = \frac{1}{2}$$

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



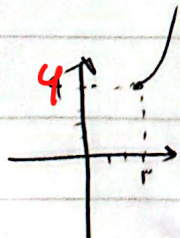
$$x_{\min} \Rightarrow \frac{-b}{2a} = \frac{2}{2} = 1 \Rightarrow y_{\min} = 2$$

$$\Rightarrow \text{تابع} \Rightarrow y = x^2 - 2x + 3 \Rightarrow (x-1)^2 + 2 \Rightarrow y = (x-1)^2 + 2$$

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

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

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



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

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

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

$$\Rightarrow x-1 > 0 \Rightarrow x > 1$$

$$x > 4$$

Date:

Sub:

$$f(n) = 2n - \sqrt{14 - f_n(f_n)} \Rightarrow \text{بالنسبة لـ } n=1 \Rightarrow 14 - 14n + n^2 \quad (3)$$

الباقي نرى

(1, 25)

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

$$f(n) = \begin{cases} 1 & n \geq 1 \\ 2n - 1 & n \leq 1 \end{cases} \Rightarrow \text{نقسم إلى حالتين: } n \geq 1 \text{ و } n \leq 1$$

$$R = (-\infty, 1]$$

$$\Rightarrow \text{دالة عكسية} \Rightarrow y = 2n - 1 \Rightarrow y + 1 = 2n \Rightarrow \frac{y+1}{2} = n$$

$$\Rightarrow y = f^{-1}(n) = \frac{1}{2}n + 1 \quad \checkmark$$

$$D_{f^{-1}} = R_f = (-\infty, 1]$$

$$S = \frac{(1+2)^2}{2} = 4$$

$$D_{f^{-1}} = [-1, 1] \Rightarrow \text{مجال عكس}$$

باعتبار قيمته

$$\frac{1 \times 2}{2} = \boxed{1} \text{ ملاحظ}$$

حشبه قتال ٥٧٣ جزوه ت

Date:

Sub:

بداية دالة بايبي

$$y = \frac{5n-11}{1-n} \xrightarrow{\text{قسمة بسط ومقام على } -1} y = -\frac{-5n-11}{1+n} \Rightarrow \text{انتقال الدالة} \quad (1) \quad 19$$

دقة!

$$y = -\frac{-5(n-2)-11}{1+(n-2)} - 1 \Rightarrow \frac{+5n+10-11}{n-1} = -\frac{5n-1}{n-1} \xrightarrow{f} \frac{2n+4}{n-1}$$

$$\Rightarrow f^{-1} = y = \frac{-5n}{n-1} \Rightarrow yn - y = -5n \Rightarrow yn + 5n = y$$

$$\Rightarrow n(y+5) = y \Rightarrow n = \frac{y}{y+5} \Rightarrow y = \frac{n}{n+5} \xrightarrow{f^{-1}} \frac{2n+4}{n-1}$$

طول قنا

$$\Rightarrow \frac{-5n}{n-1} = \frac{n}{n+5} \Rightarrow -5n^2 - 45n = n^2 - 5n$$

$$5n^2 - 45n = 0 \Rightarrow 5n(n-9) = 0 \Rightarrow n = 9$$

$$\frac{2n+4}{n-1} = \frac{n+4}{n-2} \rightarrow n^2 - 3n - 4 = 0 \rightarrow S = \frac{-b}{a} = 3$$

5, 4, 7, 8, 10 ← صفر