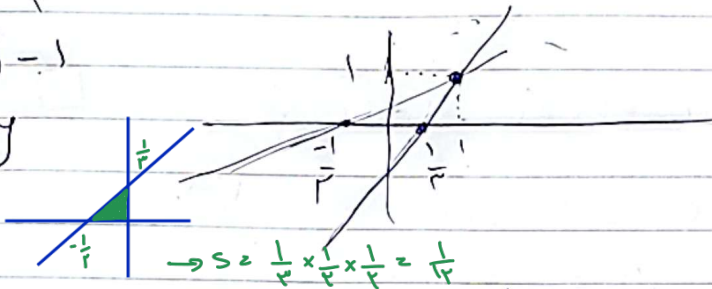


$$ky = \frac{p_{n+1}}{r} - 1 \quad \text{و} \quad y = \frac{e}{r} n + \frac{1}{r}$$

$$p_n = \frac{p_{n+1}}{r} - 1$$

$$\frac{p_{n+1}}{r} = y$$

نقطه



$$\frac{1}{e} + \frac{1}{r} = \frac{1}{r}$$

$$\frac{p_{n+1}}{r} = \frac{p}{r} n + \frac{1}{r} \Rightarrow$$

$$\frac{p}{r} n - \frac{p_n}{e} = \frac{1}{e} + \frac{1}{r}$$

$$S = \frac{\frac{1}{e} \times 1}{r} = \left(\frac{1}{r} \right)$$

$$\frac{p_{n+1}}{e} = 0 \Rightarrow p_{n+1} = 0$$

$$p_n = -1 \quad n = -\frac{1}{r}$$

$$p_n - 1 = 0$$

$$n = \frac{1}{e}$$

$$\frac{a}{y} n = \frac{a}{y}$$

2

$$y = n^2 - 2n + 2 \Rightarrow (n-1)^2 + 2 \quad [1, +\infty)$$

با توجه به اینکه $y-2 = (n-1)^2 \Rightarrow \sqrt{y-2} + 1 = n$ $\Rightarrow \sqrt{n-2} + 1 = y$ (پ)

با توجه به اینکه $y-2 = (n-1)^2 \Rightarrow \sqrt{y-2} = n-1 \Rightarrow n = \sqrt{y-2} + 1$

این $\Rightarrow$ $y-2 = 0 \Rightarrow y=2$

3

$$y = (n-1)^2 + 2 \quad [2, +\infty)$$

با توجه به اینکه $y-2 = (n-1)^2 \Rightarrow \sqrt{y-2} = n-1 \Rightarrow n = \sqrt{y-2} + 1$

4

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

با توجه به اینکه $y-2 = (n-1)^2 \Rightarrow \sqrt{y-2} = n-1 \Rightarrow n = \sqrt{y-2} + 1$

این $\Rightarrow$

$$u = P_u - \sqrt{M + \epsilon u(u - \epsilon)} \Rightarrow P_u - \sqrt{M + \epsilon u^2 - \epsilon^2 u}$$

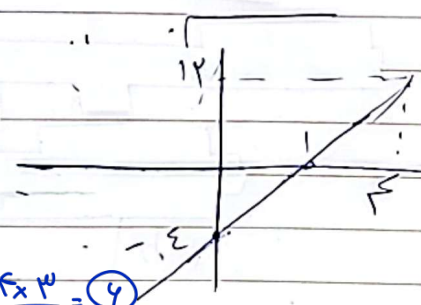
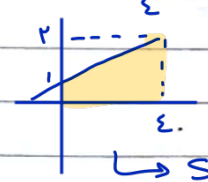
از ۲ به جنین واردن پیرد سبب بود

$$y = P_u - \sqrt{\epsilon(u + \epsilon)^2} \Rightarrow$$

1,0

$$y = P_u + 2(u + \epsilon) \Rightarrow y = P_u + 2u + 2\epsilon \Rightarrow y = \epsilon u - \epsilon$$

$$P(u) = \epsilon u - \epsilon$$
$$P'(u) = \frac{u + \epsilon}{\epsilon}$$



دانشگاه (۱۰۰, ۴)

$$S = \frac{\epsilon \alpha 1}{2} = 2$$

$$y_1 = y \Rightarrow \frac{u_1}{\sqrt{u_1^2 - \omega}} = \frac{u_2}{\sqrt{u_2^2 - \omega}} \Rightarrow \frac{u_1^2}{u_1^2 - \omega} = \frac{u_2^2}{u_2^2 - \omega} \Rightarrow$$

۲

از اینجا معلوم می شود که اگر $u_1 = u_2$ باشد، $y_1 = y_2$ است. اما اگر $u_1 \neq u_2$ باشد، $y_1 \neq y_2$ است. بنابراین، y تابعی از u است.

$$y = \frac{u}{\sqrt{u^2 - \omega}} \Rightarrow$$

$$y^2 = \frac{u^2}{u^2 - \omega} \Rightarrow y^2(u^2 - \omega) = u^2 \Rightarrow$$

$$u^2(1 - y^2) = \omega y^2 \Rightarrow u^2 = \frac{\omega y^2}{1 - y^2} \Rightarrow$$

$$\frac{\sqrt{\omega y^2}}{\sqrt{1 - y^2}} = \frac{\omega y}{\sqrt{1 - y^2}}$$

باقی بماند

بودن

و با y - ω است

1

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

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

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

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

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

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

$$f^{-1}(n) = \frac{n+4}{n-1} \rightarrow f(n) = f^{-1}(n) \rightarrow n^2 - 3n - 4 = 0$$

$$\frac{-1n}{n-1} = f \Rightarrow \frac{+y}{y+1} = f^{-1} \rightarrow S = -\frac{1}{2} \cdot \frac{y}{y+1}$$

$$\frac{n}{n+1} = \frac{1n}{n-1} \Rightarrow \frac{n}{n+1} + \frac{1n}{n-1} = 1$$

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

$$n - 1 \leq 0 \Rightarrow n + 1 = 1$$

مصنوع ليس كذلك

$$y = u + \varepsilon[u] \Rightarrow [u] = \frac{y-u}{\varepsilon}$$

$$[y] = [u + \varepsilon[u]] \Rightarrow y = [u] + \varepsilon[u] \Rightarrow [y] = \omega[u]$$

$$[y] = \omega \left(\frac{y-u}{\varepsilon} \right) \Rightarrow [y] = \frac{\omega}{\varepsilon} y - \frac{\omega}{\varepsilon} u \Rightarrow$$

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

$$f^{-1}(n) = n - 1 \cdot [u]$$

$$f \cdot g = u + \varepsilon[u] = u + 1 \cdot [u] + \varepsilon \cdot [u]$$

$$y = u - \frac{\varepsilon}{\omega} [u]$$

$$g(u) = u - \frac{\varepsilon}{\omega} [u]$$