

$$x-y=1 \rightarrow y=x-1 \Rightarrow \frac{(xy-x+1)}{\sqrt{y+1}} \xrightarrow{y=x-1} \frac{(x(x-1)+1)}{\sqrt{x}} = \frac{x}{\sqrt{x}} = \frac{\sqrt{x}}{1}$$

$$a_n = -3 \Rightarrow y = -3n + b \xrightarrow{(1,4)} 1 = -3 + b \Rightarrow b = 4 \Rightarrow y = -3n + 4$$

$$\begin{cases} -3n+4=y \\ x-1=y \end{cases} \Rightarrow n=y+1, y=y \Rightarrow \frac{1}{\sqrt{y}} \begin{bmatrix} y+1 & 1 \\ -1 & 0 \\ 1 & 1 \end{bmatrix} \Rightarrow \frac{1}{\sqrt{y}} \begin{bmatrix} y+1 & 1 \\ -1 & 0 \\ 1 & 1 \end{bmatrix} \Rightarrow \frac{1}{\sqrt{y}} \begin{bmatrix} y+1 & 1 \\ -1 & 0 \\ 1 & 1 \end{bmatrix}$$

$$m = \frac{b-a}{-\frac{1}{\mu} - (-\frac{1}{\mu})} = \frac{b-a}{\frac{1}{\mu}} = \sqrt{\mu} \Rightarrow b-a = \sqrt{\frac{\mu}{\mu}}$$

$$\text{مساحت: } \sqrt{(C-\frac{1}{\mu} - (C-\frac{1}{\mu}))^2 + (b-a)^2}$$

$$= \sqrt{(\frac{1}{\mu})^2 + (\frac{\sqrt{\mu}}{\mu})^2} = \sqrt{\frac{1}{\mu} + \frac{\mu}{\mu^2}} = \frac{2}{\mu} = \frac{2}{\mu}$$

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

میانگین مناسب برای $\sqrt{1+15}$

$$m_H = \frac{1}{\mu} = \frac{1}{\mu} \text{ و } m_L = -\frac{1}{\mu}$$

$$0 < A < 1 \Rightarrow C \Rightarrow \frac{C}{\sqrt{1+C^2}} < 1 \Rightarrow \frac{C}{1} < 1 \Rightarrow C < 1 \Rightarrow C < \frac{1}{\mu}$$

$$y = \frac{1}{\mu} x$$

$$L: y = \frac{1}{\mu} x + \frac{r_0}{\mu}, L: y = -\frac{1}{\mu} x + b \xrightarrow{(1,4)} 1 = -\frac{1}{\mu} + b \Rightarrow b = 1 + \frac{1}{\mu}$$

$$\Rightarrow L: y = -\frac{1}{\mu} x - \frac{r_0}{\mu}$$

$$\Rightarrow \begin{cases} \frac{1}{\mu} x + \frac{r_0}{\mu} = y \\ -\frac{1}{\mu} x - \frac{r_0}{\mu} = y \end{cases} \Rightarrow y = -1, x = -1 \Rightarrow \sqrt{2}$$