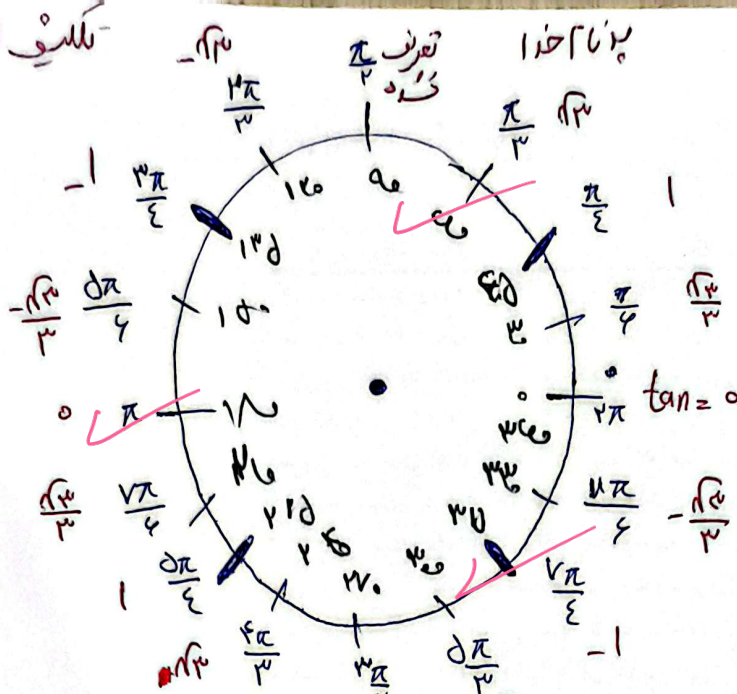


سہارن موٹر

نکسوف 2

1



2. آئینہ خوب نوشتہ

2

$$\frac{1}{y} + (-1) + (-2) = -\frac{5}{y}$$

$$-(-\frac{\sqrt{5}}{y}) + \frac{\sqrt{5}}{y} - 3(-\frac{\sqrt{5}}{y}) = \frac{\sqrt{5}}{y} + \frac{\sqrt{5}}{y} + \frac{3\sqrt{5}}{y} = \frac{5\sqrt{5}}{y}$$

$$-\frac{\sqrt{5}}{y} + 3(\frac{\sqrt{5}}{y}) - 2(-\frac{\sqrt{5}}{y}) = -\frac{\sqrt{5}}{y} + \frac{3\sqrt{5}}{y} + \frac{2\sqrt{5}}{y} = \frac{\sqrt{5}}{y} + \frac{3\sqrt{5}}{y} = \frac{4\sqrt{5}}{y}$$

$$\cos(0) + \sin(\frac{\pi}{y}) = 1 + 1 = 2$$

3

$$\text{if } x=a \rightarrow a^2 + 4a = 2a + a + 2 \rightarrow a^2 + 4a = 3a + 2 \rightarrow a^2 + a - 2 = 0$$

$$\begin{bmatrix} a^2 + 4a & m \neq 1 \\ 2a + 2 & m \neq 1 \end{bmatrix} \rightarrow f(1) = 1 + 2 = 3$$

$$a = \begin{cases} -2 \\ 1 \end{cases}$$

4

$$|a+1| \geq 2 \rightarrow a+1 \geq 2 \rightarrow a \geq 1$$

$$a+1 \leq -2 \rightarrow a \leq -3 \rightarrow 2(-3)^2 - b = 11 - b$$

$$a+2a \rightarrow a = (-3) \rightarrow a - 9 = 11 - b$$

$$a+b = 24$$

5

$$a^2 - 4a^2 \neq 0 \rightarrow a^2(a-4) \neq 0 \rightarrow a \neq 0 \text{ and } a \neq 4 \rightarrow D_f \subset \mathbb{R} - \{0, 4\}$$

$$2a^2 + 4a + 2a + 2 \neq 0 \rightarrow a^2(2a+4) + 2a+2 \rightarrow (2a+4)(a^2+1) \neq 0$$

$$2a \neq -2 \rightarrow a \neq -1, a+1 \neq 0 \rightarrow D_f \subset \mathbb{R} - \{-1\}$$

(9)  $y_{n-1} - y_{n-2} \rightarrow (y_{n-1} - y_{n-2}) y_{n-1} \rightsquigarrow \frac{-1}{+ \phi} - \frac{1}{0 +}$  (10)

(الف)  $y_{n-2} y_{n-1} \rightarrow y_{n-2} y_{n-1}$  (11)

ج)  $\alpha - \beta \gamma = 0 \rightarrow \alpha \gamma / \beta \alpha \rightarrow \gamma \geq \alpha$   
 $\alpha \alpha - \beta^2 = 0 \rightarrow \alpha \alpha \gamma / \beta^2 \rightarrow \alpha \geq \frac{1}{\beta}$

$P_f \left[ \frac{1}{\gamma}, \gamma \right]$   
 باز  
 بسته

(✓) 
$$\begin{aligned} q_1 - a y_1 &\rightarrow q_1 y_1 a \rightarrow a y_1 \frac{a}{y} \\ b - x y_1 &\rightarrow b y_1 x \rightarrow \frac{b}{x} y_1 \end{aligned} \quad \left. \vphantom{\begin{aligned} q_1 - a y_1 &\rightarrow q_1 y_1 a \rightarrow a y_1 \frac{a}{y} \\ b - x y_1 &\rightarrow b y_1 x \rightarrow \frac{b}{x} y_1 \end{aligned}} \right\} \leadsto \frac{a}{y} = \frac{b}{x} \rightarrow \textcircled{P} \quad a = q b \rightarrow \frac{b}{a} = \frac{x}{y} = \frac{1}{r}$$

(1) 
$$Y_0 \rightarrow \frac{(q^{r-1})(u+r)}{(q^{r-1})(u+r)} Y_1 \rightarrow + \frac{-r}{1} - \frac{r}{1} + \frac{r}{1} + \frac{r}{1} +$$

$$P_f = (-\infty, -r) \cup (r, \infty)$$

$$\Rightarrow \frac{x^w - yx^{r-1} - yx^{r-2}}{x^w + yx^{r-1} - yx^{r-2}} = 1$$

⑨ الف)  $\nu[n] \ll \epsilon \rightarrow [n] \ll \epsilon \rightarrow n \ll \epsilon \rightarrow \lim_{\epsilon \rightarrow 0} [n, +\infty)$

ج)  $\gamma[n] \gamma_1 \rightarrow [n] \gamma \xrightarrow{\frac{1}{r}} n \gamma^r \rightarrow \rho_f(\infty)$

$\frac{m+1}{m-1} \gamma_0 \rightarrow \frac{-1}{-1+1} \rightarrow \frac{m}{m+1} \gamma_0$   
 $\frac{m+1}{m-1} \gamma_0 \rightarrow \frac{-1}{-1+1} \rightarrow \frac{m}{m+1} \gamma_0$   
 $\frac{m+1}{m-1} \gamma_0 \rightarrow \frac{-1}{-1+1} \rightarrow \frac{m}{m+1} \gamma_0$

$\rightarrow$   $[n] \times \mathbb{R} \rightarrow \mathbb{R} \times [n]$  ,  $\mathbb{R} - [n] \times \mathbb{R} \rightarrow \mathbb{R} \times [n] \rightarrow (-\infty, \infty)$