

الف) $\frac{y_2 - y_1}{x_2 - x_1} \Rightarrow \frac{\varepsilon}{1} = f\left(\frac{\rho}{1}\right) \quad f(n - \varepsilon) = y - 2$ -1
 $2n - 12 = y - 2 \Rightarrow y = 2n - 10$

ب) $-\frac{n}{y} = \frac{-9}{2} = -\frac{3}{2} \Rightarrow -3(n - \varepsilon) = y - 2$
 $-3n + 12 = y - 2 \Rightarrow y = -3n + 14$ (2)

ج) $-\frac{n}{y} = \frac{-1}{3} \xrightarrow{\text{عوارضی}} 3 \quad 3(n - \varepsilon) = y - 2$
 $3n - 12 = y - 2 \Rightarrow y = 3n - 10$

د) $\frac{\pi}{3} = 60^\circ \xrightarrow{\text{نسبت}} \tan \alpha \Rightarrow \sqrt{3} \rightarrow \sqrt{3}(n - \varepsilon) = y - 2$
 $y = \sqrt{3} - \varepsilon\sqrt{3} + 2 \leftarrow y - 2 = \sqrt{3}n - \varepsilon\sqrt{3}$

الف) $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \Rightarrow \sqrt{3^2 + \varepsilon^2} = \sqrt{9 + 14} = \sqrt{23} = \Delta$ -2
 (5)

ب) $\frac{|ax + by + c|}{\sqrt{a^2 + b^2}} \Rightarrow \frac{|4 + 12 - 3|}{\sqrt{9 + 14}} = \frac{13}{\Delta} = 3$

$2x + 3y - \varepsilon = 0 \quad 2x + \varepsilon y - 3 = 0 \rightarrow \text{میشود}$ -3

$\begin{cases} 2x + 3y = 12 \\ 2x + \varepsilon y = 3 \end{cases} \rightarrow 2x + 4y = 10$

الف) $\frac{C + C'}{2} \rightarrow \frac{-3 - \varepsilon}{2} \rightarrow -\frac{3 + \varepsilon}{2} \rightarrow 2x + 3y - \frac{3 + \varepsilon}{2} = 0$

ب) $\frac{|C - C'|}{\sqrt{a^2 + b^2}} = \frac{|-3 - \varepsilon|}{\sqrt{23}} = \frac{3 + \varepsilon}{\sqrt{23}} = \frac{3 + \varepsilon}{\sqrt{23}}$ (6)

$\frac{12 - 10}{\sqrt{14 + 9}} = \frac{1}{\sqrt{23}}$



تاریخ: / /

موضوع: بررسی خطای از هم دفتر ۱۵



$$\frac{|x_n - y - 1|}{\sqrt{13}} = \frac{|x_n + y - 3|}{\sqrt{13}} \rightarrow x_n - y - 1 = x_n + y - 3 \quad -۴$$

$$x - y + 2 \Rightarrow -x + y = +2$$

$$x_n - y - 1 = -x_n - y + 3 \quad (۵)$$

$$2x_n + y = 4$$

است

فاصله هر نقطه روی منحنی از دو خط به اندازه

$$\tan \left| \frac{m - m'}{1 + mm'} \right| \rightarrow \left| \frac{a}{1 - y} \right| = 1 \quad \downarrow \quad \boxed{\tan 45}$$

$$y + x_n = 3 \rightarrow a = -3 \quad (E \omega + \omega)$$

$$y - x_n = \omega \rightarrow a = 2 \quad (۶)$$

$$\text{الف) } \sqrt{(18)^2 + (6)^2} = \sqrt{324 + 36} = 10 \quad \text{ب) } \frac{-\omega + (3 + 3)}{2} = -1 - 6$$

$$\frac{4 - (1 + 2)}{2} = 1 \quad (-1, 1)$$

$$\text{الف) } \frac{10 - 2 + 3}{3} = -3, \quad \frac{-13 + 3 + 1}{3} = -3 \rightarrow (-3, -3) \quad -۷$$

$$\text{ب) } \begin{matrix} -10, -2 \\ -13, 3 \end{matrix} \Rightarrow |-30 - 13 + 6 - 24 - 9 + 10| = |-52| = 52 \quad (۱۰)$$

$$\begin{matrix} 3, 1 \\ -10, 2 \end{matrix} \quad 8 = \frac{1}{2} \begin{vmatrix} 3 & 1 & 1 \\ -2 & 3 & 1 \\ -10 & -13 & 1 \end{vmatrix} = 18$$

$$\text{الف) } -y = \frac{x_n + 1}{x_n - 3} \Rightarrow y = \frac{-x_n - 1}{x_n - 3} \quad -۸$$

$$\text{ب) } y = \frac{-x_n + 1}{-x_n - 3} \quad \text{ج) } x = \frac{y + 1}{y - 3} \Rightarrow x_n y - x_n = y + 1$$

$$x_n y - y = x_n + 1$$

$$x_n y (x_n - 1) = x_n + 1$$

$$y = \frac{x_n + 1}{x_n - 1}$$

$$\text{د) } -x = \frac{-y + 1}{-y - 3} \Rightarrow y = -\frac{x_n - 1}{x_n + 2}$$

۹- $x' = x - 2$ الف، $x' = x - 2 \rightarrow x = x' + 2$

$y' = y - 3$ $y' = y + 3 \rightarrow y = y' - 3$ (۲)

$y' - 3 = \frac{2(x' + 2) + 1}{(x' + 2) - 3} = y' = \frac{2x' + 5}{x' - 1} + 3 \Rightarrow \frac{5x' + 2}{x' - 1} = y'$

$x' = x - 3, y' = y - 2 \rightarrow y' + 2 = \frac{2(x' + 3) + 1}{x' + 3 - 3} = y' = \frac{2x' + 7}{x'}$
 $x = x' + 3, y = y' + 2$

الف) $\begin{cases} 3x + 5y = 2 \\ -3x + 15y = -3 \end{cases} \rightarrow 19y = -1$
 $y = -\frac{1}{19}$

$y' = \frac{7}{x'}$

$x - 2y = 1 \rightarrow x = \frac{-5}{19} + \frac{19}{19}$
 $x = \frac{14}{19}$ (۱)
 $y = -\frac{1}{19}$

ب) $x = -\frac{1}{19}$ $y = \frac{15}{19} = \frac{15}{19}$

$\begin{cases} 3x + 5y = 2 \\ x - 2y = 1 \end{cases} \rightarrow x = \frac{(5(-1)) - 15}{-10 - 3} = \frac{14}{19}$

$y = \frac{3 - 1}{-10 - 3} = -\frac{1}{19}$