طاها جریان عمار، یازدهم تجربی A تکلیف ۵

$y=-4x+b \rightarrow 2=-16+b \rightarrow b=18$

$\frac{\Delta y}{\Delta x}=\frac{2+2}{4-5}=\frac{4}{-1}=-4$ $\quad y=-4x+18$ ۱

$2y+6x=b \rightarrow 4+24=b=28 \rightarrow 2y+6x=28$

$x+3y=1 \rightarrow -3x+y=b \rightarrow -12+2=b=-10 \qquad -3x+y=-10$

$m=\tan\frac{\pi}{3}=\sqrt{3} \quad y=\sqrt{3}x+b \rightarrow 2=4\sqrt{3}+b \rightarrow b=2-4\sqrt{3} \quad y=\sqrt{3}x+2-4\sqrt{3}$

$\sqrt{9+16}=5=\sqrt{(\Delta x)^2+(\Delta y)^2}$ ۲

$3x+4y-3=0 \longrightarrow \frac{6+12-3}{\sqrt{9+16}}=\frac{15}{5}=3$

$\begin{cases}2x+3y=4\\ 2x+3y=6\end{cases} \longrightarrow 2x+3y=\frac{10}{2}=5$ ۳

$\begin{cases}2x+3y=4\\ 2x+3y=6\end{cases} \longrightarrow \frac{2}{\sqrt{4+9}}=\frac{2\sqrt{13}}{13}$

$\frac{|2x+3y+3|}{\sqrt{13}}=\frac{|3x-2y-1|}{\sqrt{13}}$ $\quad 3x-2y-1=2x+3y-3 \rightarrow 5y-x=2$ ۴

$3x-2y-1=-2x-3x+3 \rightarrow 5x+y=4$

$\begin{cases}y=2x+5\\ y=-3x+3\end{cases} \quad \tan\alpha=\frac{5}{|1-6|}=1 \Rightarrow \alpha=45$ ۵

$\sqrt{8^2+6^2}=\sqrt{100}=10$ ۶

$\left.\begin{matrix}\frac{3-5}{2}=-1\\ \frac{4-2}{2}=1\end{matrix}\right\} (-1, 1)$

$\left.\begin{matrix}\frac{-10-2+3}{3}=-3\\ \frac{-13+3+1}{3}=-3\end{matrix}\right\} (-3, -3)$ ۷

$\frac{1}{2}\begin{vmatrix}3 & 1 & 1\\ -2 & 3 & 1\\ -6 & -13 & 1\end{vmatrix}=\frac{1}{2}|96|=48$

$-y = \frac{2x+1}{4x-3} \rightarrow y = \frac{2x+1}{3-4x}$ ۸

$y = \frac{-2x+1}{-4x-3} = \frac{2x-1}{4x+3}$

5. $x = \frac{2y+1}{4y-3} \rightarrow y = \frac{3x+1}{4x-2}$

$-x = \frac{-2y+1}{-4y-3} \rightarrow x = \frac{-2y+1}{4y+3} \rightarrow y = \frac{-3x+1}{4x+2}$

$y'-3 = \frac{2x'+5}{x'-1}$ ۹

10. $y' = \frac{2x'+5}{x'-1} + 3 \Rightarrow y' = \frac{5x'+2}{x'-1}$ $\left.\begin{matrix} x = x'+2 \\ y = y'-3 \end{matrix}\right\}$

$y'+2 = \frac{2x'+7}{x'}$

$y' = \frac{2x'+7}{x'} - 2 = \frac{7}{x'}$ $\left.\begin{matrix} x = x'+3 \\ y = y'+2 \end{matrix}\right\}$

15.

$3x+4y=2$ ۱۰

$\times 2 \quad x-2y=1$ $\left.\begin{matrix} 3x+4y=2 \\ 3x-10y=3 \end{matrix}\right\} \Rightarrow x = \frac{14}{19}$

$14y=-1$

20. $3x+4y=2$

$x-2y=1$ $x = \frac{14}{19}$ $y = \frac{3-2}{-10-4} = \frac{-1}{14}$

25.

30.