получаетса: $A^{-1} = \begin{pmatrix} -\frac{1}{3} & \frac{1}{3} & 1 \\ 1 & 0 & -3 \\ -\frac{4}{3} & -\frac{2}{3} & 5 \end{pmatrix}$

$X = \begin{pmatrix} 1 & -2 & 3 \\ 2 & 1 & 0 \end{pmatrix} \begin{pmatrix} -\frac{1}{3} & \frac{1}{3} & 1 \\ 1 & 0 & -3 \\ -\frac{4}{3} & -\frac{2}{3} & 5 \end{pmatrix}$

$= \frac{1}{3} \begin{pmatrix} -19 & -5 & 66 \\ 1 & 2 & -3 \end{pmatrix}$

зд 5.

1. $\begin{cases} 2x + 5y = 1 \\ 3x + 7y = 2 \end{cases}$

2. $\begin{cases} 2x - 3y = 4 \\ 4x - 5y = 10 \end{cases}$

$\Delta = \begin{vmatrix} 2 & 5 \\ 3 & 7 \end{vmatrix} = 14 - 15 = -1$

$\Delta x = \begin{vmatrix} 1 & 5 \\ 2 & 7 \end{vmatrix} = 7 - 10 = -3$

$\Delta y = \begin{vmatrix} 2 & 1 \\ 3 & 2 \end{vmatrix} = 4 - 3 = 1$

$y = \frac{\Delta y}{\Delta} = \frac{1}{-1} = -1$

$x = \frac{\Delta x}{\Delta} = \frac{-3}{-1} = 3$

$\Delta = \begin{vmatrix} 2 & -3 \\ 4 & -5 \end{vmatrix} = -10 + 12 = 2$

$\Delta x = \begin{vmatrix} 4 & -3 \\ 10 & -5 \end{vmatrix} = -20 + 30 = 10$

$\Delta y = \begin{vmatrix} 2 & 4 \\ 4 & 10 \end{vmatrix} = 20 - 16 = 4$

$x = \frac{\Delta x}{\Delta} = 5,$

$y = \frac{\Delta y}{\Delta} = 2$