$$\begin{cases} x+y+z=25 \\ x-y+z=5 \\ x-2y+2z=-10 \end{cases}$$

standard

$$\begin{cases} x+y+z=25 \\ x-y+z=5 \\ x+2z=2y-10 \end{cases}$$

Matrice augmentée

$$\left(\begin{array}{cccc} 1 & 1 & 1 & 25 \\ 1 & -1 & 1 & 5 \\ 1 & -2 & 2 & -10 \end{array}\right)$$

$L_2 \leftarrow L_2 - L_1$ $\quad$ $L_3 \leftarrow L_3 - L_1$

$$\left(\begin{array}{cccc} 1 & 1 & 1 & 25 \\ 0 & -2 & 0 & -20 \\ 0 & -3 & 1 & -35 \end{array}\right)$$

$L_2 \leftarrow -\frac{1}{2} L_2$

$$\left(\begin{array}{cccc} 1 & 1 & 1 & 25 \\ 0 & 1 & 0 & 10 \\ 0 & -3 & 1 & -35 \end{array}\right)$$

$L_3 \leftarrow L_3 + 3L_2$

$$\left(\begin{array}{cccc} 1 & 1 & 1 & 25 \\ 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & -5 \end{array}\right)$$

$$\begin{cases} x=20 \\ y=10 \\ z=-5 \end{cases}$$

$x+10-5=25$

$x=20$

$x+y+z=25$

$y=10$

$z=-5$

$$\begin{pmatrix} 2 & -4 & 2 \\ 1 & -2 & 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 1 \\ 2 & -4 & 2 \end{pmatrix}$$

$L_2 \leftarrow L_2 - 2L_1$

$$\begin{pmatrix} 1 & -2 & 1 \\ 0 & 0 & 0 \end{pmatrix}$$

$0x + 0y = 0$

$\boxed{0 = 0}$

$x = 2y + 1$

$y = y$

$\boxed{x - 2y = 1}$

$\Leftrightarrow x - 1 = 2y \Leftrightarrow y = \frac{1}{2}x - \frac{1}{2}$

$x = 5$

$y = 2$

$$\frac{3x-1}{x} + \frac{1-2x}{x} = \frac{3x-1+(1-2x)}{x}$$

$$\frac{3}{5} + \frac{4}{5} = \frac{3+4}{5}$$

$$\frac{P(x)}{Q(x)} = 0 \quad \Rightarrow \quad P(x) = 0$$

2

$$\frac{x - 3x + 2}{(x+3)\,x} = 0 \quad \Rightarrow \quad x^2 - 3x + 2 = 0$$

$$\frac{27}{\nabla 1 \neq 9-} = X$$

$$2\varepsilon h -_2 9 = \nabla$$

$$0 = 7 + x9 +_2 x\varepsilon$$

$$\varepsilon/9 - = X \leftarrow \quad 0 = 9 + x\varepsilon$$

$$\begin{pmatrix} 2 & 3 & 4 \\ 5 & 6 & 10 \end{pmatrix}$$

$$L_2 \leftarrow 2 \cdot L_2 - 5 \cdot L_1$$

$$\begin{pmatrix} 2 & 3 & 4 \\ 0 & -3 & 0 \end{pmatrix}$$

$$-3y = 0$$

$$y = 0$$

$$2x + 3 \cdot 0 = 4$$

$$\boxed{a-b}$$

$$b-a = -\boxed{(a-b)}$$

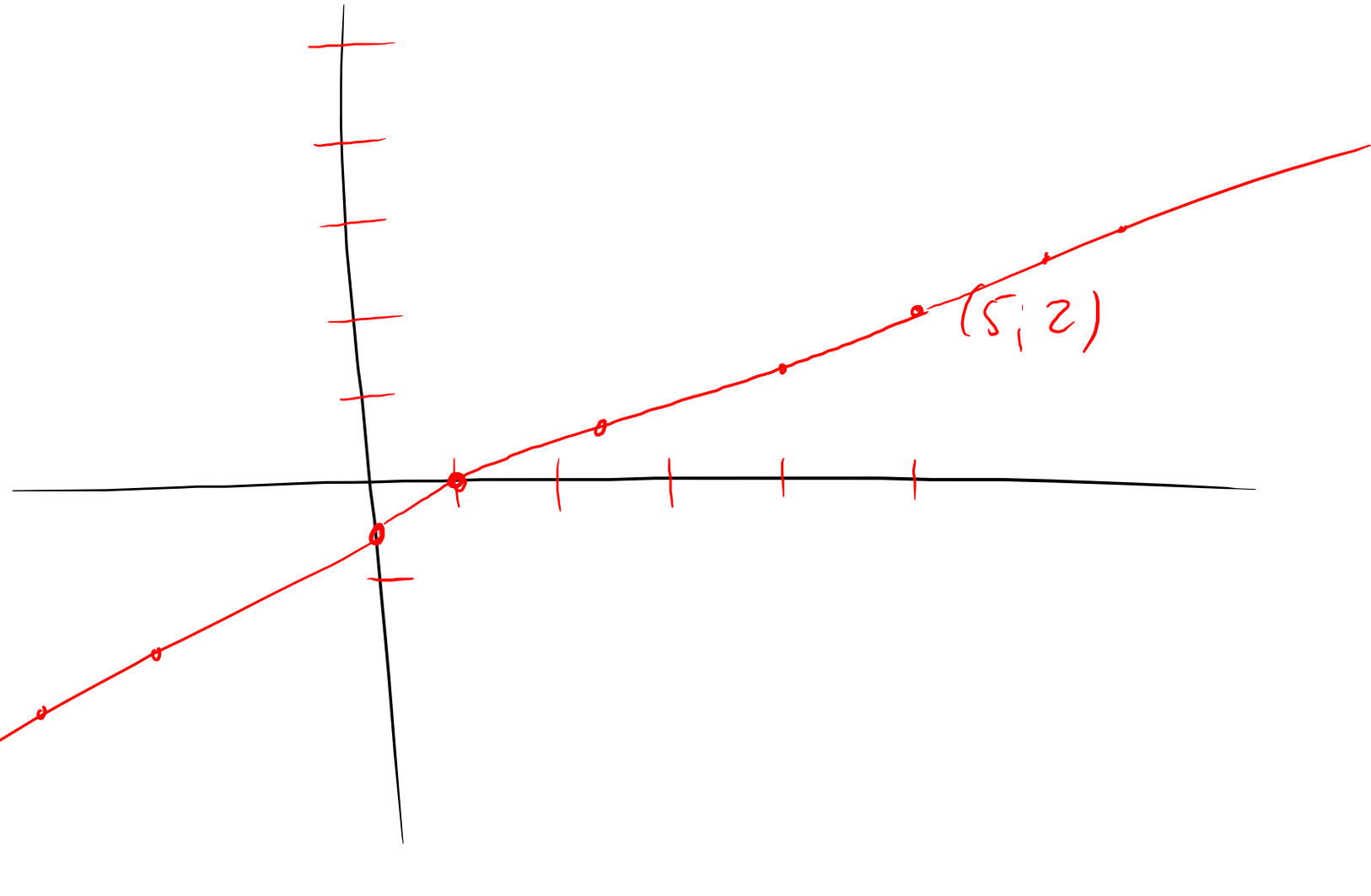
$$-(a-b) = -a+b$$

$$= b-a$$

$$x - 2y = 1$$

$$x - 1 = 2y$$

$$y = \frac{1}{2}x - \frac{1}{2}$$



$$\frac{P(x)}{Q(x)} = \frac{(x-6)R(x)}{Q(x)}$$