$$\begin{pmatrix}
a_{11} & a_{12} & \dots & a_{1n} \\
\vdots & \vdots & \ddots & \vdots \\
a_{m_1} & a_{m_2} & \dots & a_{m_n}
\end{pmatrix}
\begin{pmatrix}
x_1 \\
x_2 \\
\vdots \\
x_n
\end{pmatrix}
=
\begin{pmatrix}
b_1 \\
b_2 \\
\vdots \\
b_m
\end{pmatrix}$$

$$\begin{pmatrix}
a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n
\end{pmatrix}
=
\begin{pmatrix}
b_1 \\
b_2 \\
\vdots \\
b_m
\end{pmatrix}$$

$$\begin{vmatrix}
a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n
\end{vmatrix}
=
\begin{pmatrix}
b_1 \\
b_2 \\
\vdots \\
b_n
\end{pmatrix}$$

24=12 inconsistente Considence

Si 
$$q=b$$
,  $\Rightarrow$ )  $a\cdot c=b\cdot c$   
Si  $q=b$  y  $c=d$ , enforces  $q+c=b+d$ .

$$+ \frac{(-4x_1 + 5x_2 + 4x_3 = -9)}{-3x_2 + 13x_3 = -9}$$

$$9+c=b+d.$$

$$\begin{pmatrix} 1 & -2 & 1 \\ 0 & 2 & -8 \\ -4 & 5 & 9 \end{pmatrix} = A$$

$$b = \begin{pmatrix} 8 \\ -9 \end{pmatrix} \quad \chi = \begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{pmatrix}$$

$$\frac{4}{3} = \frac{4}{2} = 2$$

$$x_2 = \frac{1}{1}(s-2) = 3$$

$$\begin{pmatrix}
x_{1} & x_{2} & x_{3} \\
0 & 1 & 0 & 2 \\
0 & 0 & 0 & 3
\end{pmatrix}$$

$$\begin{pmatrix}
x_{1} & = 1 \\
0 & 1 & 0 & 2 \\
0 & 0 & 3
\end{pmatrix}$$

$$\begin{pmatrix}
x_{1} & = 1 \\
0 & 1 & 0 & 2 \\
0 & 0 & 3
\end{pmatrix}$$

$$\begin{pmatrix}
x_{1} & = 1 \\
0 & 1 & 0 & 2 \\
0 & 0 & 3
\end{pmatrix}$$

$$\begin{pmatrix}
x_{1} & + 2x_{2} & = 5 \\
0 & 1 & 3 & 4 \\
0 & 0 & 3
\end{pmatrix}$$

$$\begin{pmatrix}
x_{1} & + 2x_{2} & = 5 \\
x_{2} & + 3x_{3} & = 4 \\
0 & 5x_{3} & = 0
\end{pmatrix}$$

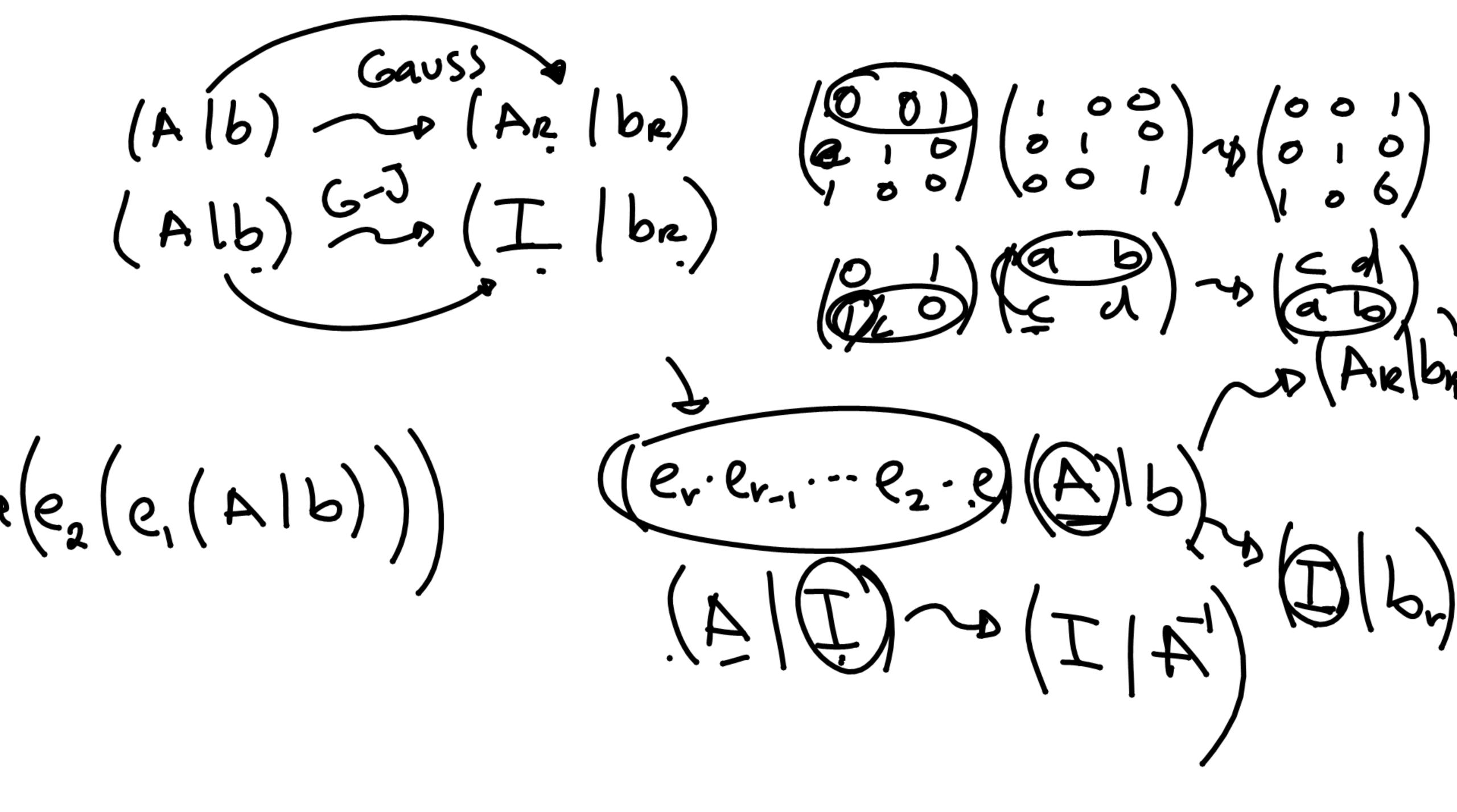
$$\begin{pmatrix}
x_{1} & + 2x_{2} & = 5 \\
x_{2} & + 3x_{3} & = 4 \\
0 & 5x_{3} & = 0
\end{pmatrix}$$

1) 
$$3x_1 + 6x_2 - 6x_3 = 9$$
  
 $2x_1 - 5x_2 + 4x_3 = 6$   
 $5x_1 + 28x_2 - 26x_3 = -8$ 

2) 
$$x_1 + 2x_2 - 2x_3 - x_4 = 1$$
  
 $-3x_1 + 4x_2 + x_3 - 2x_4 = 4$   
 $-3x_1 + 14x_2 + 4x_3 - 7x_4 = 3$   
 $6x_1 + 12x_1 - 12x_3 - 6x_4 = 5$ 

3)  $X_{1} + X_{2} - X_{3} = 0$   $4x_{1} - X_{2} + 5x_{3} = 0$  Cons  $6x_{1} + X_{2} + 3x_{3} = 0$ . 5 olutiones Minipas.

 $-\eta V_1, V_2, V_3 \in IR^3$ A-es único (x) = (x) = 0V, x, + V2 x2 + V3 x3 = 0 



X, -D Cant. Peres esp. 1 X<sub>2</sub> -D 11 11 11 2 X<sub>3</sub> -D 11 11 3

$$1x_1 + 3x_2 + 2x_3 = 25,000$$
  
 $1x_1 + 4x_2 + 1x_3 = 20,000$ 
  
 $2x_1 + 5x_2 + 5x_3 = 55,000$