224 + 4 262 = 6 El moterno

$$32(1 + 22) = 5$$

$$32(1 + 22) = 5$$

$$32(1 + 22) = 5$$

EDEMP to 1

$$\begin{cases} 3h_1 - 12 + 13 = -9 \\ 5 x_1 - 12 + 13 = -12 \\ 2 x_1 + x_2 + x_3 = 11 \end{cases}$$

3 équivolente a

2 20, +962 + 263 = 11 5 26, - 4262 + 3 263 = -12 20, -262 + 263 = -4 Intercombis:

E1 = 3 × E1 · Escolocio

$$\begin{cases}
32, -322 + 323 = -12 \\
52, -422 + 323 = -12 \\
221 + 22 + 23 = 11
\end{cases}$$

· Sustitución Ez = Ez - 3 EA

$$\begin{cases} 2i - 2i + 2i = -4 \\ 52i - 42i + 32i = -12 \\ 22i - 2i + 02i = 0 \end{cases}$$

EJEMPW 21

$$\begin{vmatrix} 3 \times = 6 \\ 2 \times = 10 \\ 5 \times = 2 \end{vmatrix} \Rightarrow \begin{vmatrix} 3 & 0 & 0 & 6 \\ 0 & 2 & 0 & 10 \\ 0 & 0 & 5 & 2 \end{vmatrix} \Rightarrow \begin{vmatrix} 2 & 2 & 0 & 4 \\ 2 & 2 & 0 & 4 \end{vmatrix}$$

 4 -1 2 3 20

 0 -2 7 -4 - 4

 0 0 6 5 4

 0 0 3 6

TEDEMPLO 3:

i) 
$$(421, -312 + 223 + 324 = 20)$$
  
ii)  $(-212 + 723 - 424 = -7)$   
iii)  $(623 + 824 = 4)$ 

i) 
$$x_4 = 2$$
ii)  $6x_3 + 10 = 9$ 
iii)  $-2x_2 - 7 - 8 = -7$ 
iv)  $4x_1 + 4 - 2 + 6 = 20$ 
i)  $x_4 = 2$ 
iv)  $4x_1 + 4 - 2 + 6 = 20$ 

23 = -1

My1:3 = 3/1.

file a combin this pust

Filo 4= Rilo Y - (-4/12) Filo 3 multiplicoces My3 = - 4/12  $\left( \begin{array}{c} x-2y+2=-4 \\ -y-5z=3 \\ z=5 \end{array} \right)$ EJEMPLO S  $\begin{cases} 2x - 2y + 2 = -4 \\ 2x + 4y - 32 = 3 \\ x - 3y - 42 = -1 \end{cases}$ S fullipticodo: EJEMPHO 6 m21 = 24,14 ) 1, 133 x + 5,281 y = 6,414 1,133 1 24,14 x - 1,210 7 = 22,93 =21,31/ |Filo 2= Filo 2-21,31 Filo 1] 22,93-21,31 × 6,414 24,14-21,31 , 1,133 | -1,210-21,31 x 5,281 27,93-136,7 -1,210 -112,5 24,14 - 24,14 -113,7 8,811-0,0000  $\begin{cases} 1,133 \times +5,281 \text{ y} = 6,414 \\ -113,7 \end{cases} = 1,001 \\ -113,7 \end{cases} = 1,001 \\ = 6,414 - 5,231 \times 1,001 = 6,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,414 - 5,4$ ροφωπο piete > grom multiplicados η mognitus = 6,414 = μμα 5,286 =  $\frac{1,128}{1,133}$ 24,14x - 1,210 y = 22,93 = 0,9956

1,133-0,04693x24,14 1,133 - 1,133 0,0000

11,133 x +5,281 y -6,414

fulliplicador M21 = 1,133/24,14= 0,04893 5,281 - 0,05679 5,338

5,281-0,04693×1,210 | 6,414-0,04693 × 22,93 6,414-1,076 5,338

(F2=F2-0,04693 F1

$$\begin{cases} 24,14 \times -1,210 \text{ y} = 22,93 & \text{y} = 5,338 / 5,338 = 1,000 \\ \hline 5,338 \text{ y} = 5,338 & \text{x} = 22,93 + 1,210 \times 1,000 \\ \hline \text{sbserver magnitud.} & = 22,93 + 1,210 = 24,14 = 1,000 \\ \hline \text{private grande} \Rightarrow \text{multiplicates diviso.} & 24,14 = 24,14 = 1,000 \\ \hline \end{cases}$$

> wews ever

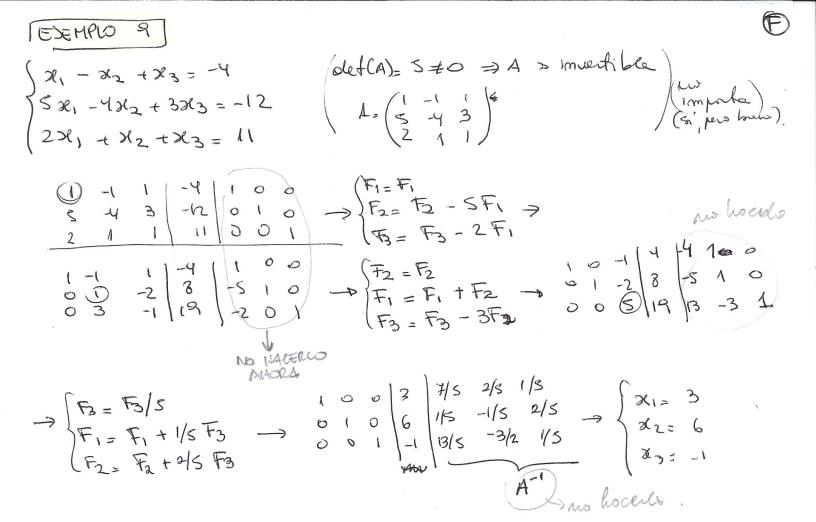
[EJEMPW 8] Some el ejemplo auterion.

a 1 -	\	-4	1	a lara/mox1
5 -4	3	-12	1.5	1.25
2 1	1	11	2	
2 1	1	110		
5 -4	. 3	-12		
1 -	j	-4		
-13	1	-79)	13	1
-3	1	- 19	3	1
	-10	10)		
	A STATE OF THE PARTY OF THE PAR			

-13×2-1=-79 = ×2=6

21 - 3

EJEMPLO 48 Conf - En el gempro 4 llegames a -12 13 - Debeus continuo hosto que 0 0 -136 408 -8-3(-8) A re tuensforme en diogonal: [12-1 Fila 2= Filo 2/(-4) - 29 + 21 (-3) = 25 7 + 4 = 2 7/4 -29/4 0 1 -1 P3 = F3 / (-2)137 - 12 4 21 -13/12 87/12 0 0 1 FY = FY / (-136) -31 13 (-3) -32 PM F1 = F1 + (-3) F4 1 2 -1 F2: F2 - 7/4 F4 -27 -7 (-3) = F3 - F3 + 15/2 F4 0 4 0 0 1 0 0 0 1 -3 -8+3(-3) -7-7( F1= F1 + F3 1200 F2 = F2 + F3 0100 - h - 2 2 -FI = FI - 2 F2 3-33-3-9-6-9-3  $-4 - \frac{3}{2} = \frac{-8 - 3}{2} = -\frac{11}{2}$ 100011-31 EJEMPIO 9 -> wentos complicados, unel sogre.  $\begin{bmatrix} 2 & 3 & 1 & | & 1 & 0 & 0 \\ 3 & -2 & -4 & | & -3 & | & 0 & 1 & 0 \\ 5 & -1 & -1 & | & 4 & | & 0 & 0 & 1 \end{bmatrix} = F1 = F1/2$  F2 = F2 - 3/2 F1 F3 = F3 - 5/2 F1 F3 = F3 - 5/2 F12 R + 3 f + 7 = 1 F3 = P3 -5/2 F1 / -3-31 (Sze -y - 2 = 4 e < 7 一号3 F1 = F1 + 2 13 F2 2+312-13-33 = -10=-10 1 3/2 1/2 1/2 0 0 F2 = F2/(-12/2) 0 4312 -11/2 -9/2 -3/2 1 0 日: 73 - 生育巨 0 -17/2 -7/2 3/2 -5/2 0 1 5/24 Fi=Fi+ 岩岩 F3 0 10/13 1-7/13 13 13 0 1 0 0 1 1/24 -1/24 5/24 1 11/13 9/13 3/13-52/13 0 0 1 0 -1 17/48 7/48 11/48 0 48/13 96/13 7/B -17/B1 0 0 1 2 -7/48 -17/48 Fo = Fo / (48/10) -1/3 24 3 13 18 4 4 2 27 1 13 43 12 18 AT



$$X_{2} = D'(b-RX_{1}) = \begin{bmatrix} 1/4 & 0 & 0 \\ 0 & -1/8 & 0 \\ 0 & 0 & 1/2 \end{bmatrix} \begin{bmatrix} 1/4 & 0 & 0 \\ -21 & -1/9 & 0 \\ 0 & 0 & 1/2 \end{bmatrix} \begin{bmatrix} 1/4 & 0 & 0 \\ -21 & -1/9 & 0 \\ 3/3750 \end{bmatrix} = \begin{bmatrix} 1/4 & 0 & 0 \\ 0 & -1/8 & 0 \\ 0 & 0 & 1/5 \end{bmatrix} \begin{bmatrix} 1/3438 \\ -31 \\ 15/175 \end{bmatrix} = \begin{bmatrix} 1/3438 \\ 3/3750 \\ 3/0750 \end{bmatrix}$$

Teorema:

$$A = \begin{bmatrix} 4 & -1 & 1 \\ 4 & -8 & 1 \\ -2 & 1 & 8 \end{bmatrix}$$

$$\begin{vmatrix} -8 & 7 & -1 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1 \\ 1 & -8 & 7 & -2 & 1$$

El procoso conterge

Intercombionals 10 y 30;

$$A = \begin{bmatrix} -2 & 1 & 5 \\ 4 & -8 & 1 \\ 4 & -1 & 1 \end{bmatrix}$$

$$1-2 | < |11| + | 11| = 5$$

$$11 | < |4| + |-1| = 5$$

No refuelle oreginar que Describes converje.

El sinterno era.

$$\begin{cases} 422 - 34 + 2 = 7 \\ 42 - 34 + 2 = -21 \\ -2x + 4 + 52 = 15 \end{cases}$$

$$\begin{cases} \chi_{k+1} = \frac{4 + y_k - 7k}{y} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_{k+1} = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_{k+1} = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & k & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 & \chi_0 \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_{k+1} + 7k}{8} & \chi_0 = (1,2,2) \\ \chi_0 = \frac{21 + y_$$

$$\frac{\text{Holicoolmente}}{A = \begin{bmatrix} 4 & -1 & 1 \\ 4 & -8 & 1 \\ 2 & 1 & 8 \end{bmatrix}} = \begin{bmatrix} 4 & 0 & 0 \\ 4 & -8 & 0 \\ -2 & 1 & 8 \end{bmatrix} = \begin{bmatrix} 0 & -1 & 1 \\ 4 & -8 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & -1 & 1 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 25 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 &$$

$$X_{1} = L^{-1}(b - Ux_{0}) = L^{-1}\begin{bmatrix} 7 \\ -21 \\ 15 \end{bmatrix} = \begin{bmatrix} 0 & -1 & 1 \\ 0 & 0 & 1 \\ 0 & 0 & 2 \end{bmatrix} = \begin{bmatrix} 0.25 & 0 & 0 \\ 0.05 & -0.025 & 0 \\ 0.075 & 0.025 & 0.22 \end{bmatrix} = \begin{bmatrix} 1.75 \\ 3.75 \\ 2.95 \end{bmatrix}$$

$$X_2 = L'(b-UX_1) \cdot L'(\frac{7}{-21} - \frac{0}{0} \cdot \frac{1}{0}) \begin{bmatrix} \frac{1}{175} \\ \frac{3}{175} \end{bmatrix} = \begin{bmatrix} 0, \frac{15}{0} & 0 & 0 \\ \frac{9}{125} & -9, \frac{125}{0} & 0 \\ 0, \frac{7}{075} & 0, \frac{125}{025} & 0 \end{bmatrix} \begin{bmatrix} \frac{4}{18} \\ -23, \frac{95}{0} \\ \frac{2}{18} \end{bmatrix} = \begin{bmatrix} 1, \frac{95}{3}, \frac{968}{3} \\ \frac{2}{18} \end{bmatrix}$$