$3agura 1 : A = \begin{pmatrix} 6 - 8 \\ 0 & 8 \end{pmatrix} = 1 det A = \begin{vmatrix} 6 - 8 \\ 0 & 8 \end{vmatrix} = 6.8 - 0.(-8) = 48$

Zergecta 2: $A = \begin{pmatrix} 1 & 1 & 3 \\ 4 & 4 & 1 \\ 1 & -1 & 6 \end{pmatrix} = 1$ dot $A = \begin{pmatrix} 2 & 1 & 3 & 2 & 1 \\ 4 & 4 & 1 & 4 & 4 \\ 1 & -1 & 6 \end{pmatrix} = 2.4.6 + 1.2.1 + 3.4.(-1)$

```
\begin{cases} 3agarla 5: & \begin{vmatrix} -2 & 4 & -2 & 2 \\ 0 & -1 & 0 & -2 \\ 0 & 0 & -3 & -2 \\ 0 & 0 & 0 & 2 \end{vmatrix} = (-1). (-1). 2 = -24
```

```
 \begin{cases} 2 & 0 & 1 & -3 \\ 6 & -2 & 3 & -10 \\ -12 & 6 & -4 & 11 \\ -10 & 30 & -22 & 101 \end{cases} = \begin{cases} 2 & 0 & 1 & 1 \\ 1 & 0 & 10 & 10 \end{cases} = \begin{cases} 2 & 0 & 1 & 1 \\ 1 & 0 & 10 & 10 \end{cases} = \begin{cases} 2 & 0 & 1 & 1 \\ 1 & 0 & 10 & 10 \end{cases} = \begin{cases} 2 & 3 & -10 \\ 1 & 0 & 10 & 10 \end{cases} = \begin{cases} -2 & 3 & -10 \\ 6 & -4 & 11 \\ 16 & -12 & 101 \end{cases} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -4 & 11 & 6 & -4 \\ 16 & -21 & 101 \end{cases} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -4 & 11 & 6 & -4 \\ 16 & -21 & 101 \end{cases} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -4 & 11 & 6 & -4 \\ 16 & -21 & 101 \end{cases} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -4 & 11 & 6 & -4 \\ 16 & -21 & 101 \end{cases} = \begin{bmatrix} -2 & 3 & -10 & -21 \\ 6 & -2 & 101 & 101 \end{bmatrix} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -2 & 1 & 101 & 101 \end{bmatrix} = \begin{bmatrix} -2 & 3 & -10 & -2 & 3 \\ 6 & -2 & 1 & 101 & 101 \end{bmatrix} = \begin{bmatrix} -2 & 3 & -10 & -21 \\ 6 & -2 & 1 & 101 & 101 \end{bmatrix} = \begin{bmatrix} -2 & 3 & -10 & -21 \\ -12 & 6 & 101 & 101 & 101 \end{bmatrix} = \begin{bmatrix} -2 & 3 & -10 & -21 \\ -60 & 30 & 101 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & 1 & 101 & 101 & 101 \\ 6 & 1 & 1 & 101 & 101 \\ -60 & 30 & -22 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & 2 & 1 & 6 & 1 \\ 6 & 1 & 1 & 1 & 1 \\ -60 & 10 & -22 & 401 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 3 & 6 & 2 \\ -11 & 6 & -4 & 16 & 1 \\ -60 & 30 & -22 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & 1 & 1 & 1 & 1 \\ 6 & 1 & 1 & 1 & 1 \\ -60 & 10 & -22 & 401 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 3 & 6 & 2 \\ -11 & 6 & -4 & 16 & 1 \\ -60 & 30 & -22 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & 1 & 1 & 1 & 1 \\ 6 & 1 & 1 & 1 & 1 \\ -60 & 10 & -22 & 401 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 3 & 6 & 2 \\ -11 & 6 & -4 & 16 & 1 \\ -60 & 30 & -22 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 1 & 6 & -2 \\ -11 & 6 & -4 & 16 & 1 \\ -11 & 6 & -4 & 16 & 1 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 3 & 6 & -2 \\ -11 & 6 & -4 & 16 & 1 \\ -60 & 30 & -22 & -60 & 30 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 1 & 6 & -2 \\ -11 & 6 & -2 & 1 & 6 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \end{bmatrix} = \begin{bmatrix} 6 & -2 & 1 & 6 & -2 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -2 & 1 & 6 & -2 & 1 \\ -
```

Sagara 8:

$$\begin{cases}
x_{1} = -1 \\
x_{1} = x_{1} + x_{3} = -3
\end{cases} \Rightarrow A : \begin{pmatrix} 1 & 0 & 0 \\
1 & 1 & 1 \\
-1 & 1 & 2 & 1 = 3
\end{pmatrix}$$

$$A : \begin{pmatrix} 1 & 0 & 0 \\
1 & 1 & 1 \\
-1 & 1 & 0 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1 \end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 0 & 1 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix} \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0 \\
0 & 1 &$$

$$\begin{cases}
a_{1} + a_{3} = 0 \\
-a_{1} + x_{2} - b_{a_{3}} = -1
\end{cases}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
1 & 0 & 1 \\
-1 & 1 & -5 \\
-2 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1 & 1 & -5 \\
-1 & 1 & -5
\end{vmatrix}$$

$$\begin{vmatrix}
A = \begin{pmatrix}
-1$$

$$= \frac{1}{1} \times 1 = \frac{0}{1} = \frac{0}{1} = 0 \quad ; \quad \kappa_{1} = \frac{0}{1} = \frac{1}{1} = -1 \quad ; \quad \kappa_{3} = \frac{0}{1} = 0$$