$$A^{-1} = \begin{pmatrix} 2/9 & 1/9 \\ -5/27 & 2/27 \end{pmatrix} \Rightarrow \begin{pmatrix} 4 & 4 & 4 \\ 4 & 4 & 4 \end{pmatrix}$$

$$(A^{-1})^{T} = \begin{pmatrix} 2/q & -5/27 \\ 1/q & 2/27 \end{pmatrix}$$

SATISH KUMAR

AT
$$A = \begin{pmatrix} 2 & -3 \\ 5 & 6 \end{pmatrix}$$

AT $= \begin{pmatrix} 2 & 5 \\ -3 & 6 \end{pmatrix}$

AT $= \begin{pmatrix} 2 & 5 \\ -3 & 6 \end{pmatrix}$

AT $= \begin{pmatrix} 2 & 5 \\ -3 & 6 \end{pmatrix}$

A $= \begin{pmatrix} -3 & 6 \\ -3 & 6 \end{pmatrix}$

The sequentian 2 by the and add in equation 2 by $= \begin{pmatrix} -1 & 11 \\ -3 & 6 \\ 0 & 1 \end{pmatrix}$

The sequentian 2 by $= \begin{pmatrix} -1 & 11 \\ 0 & -27 \\ -3 & -3 \end{pmatrix}$

Multiply equation 2 by $= \begin{pmatrix} -1 & 11 \\ 0 & 1 \\ 3 \\ 27 \end{pmatrix}$

And add in equation 1

 $= \begin{pmatrix} -1 & 11 \\ 0 & 1 \\ 3 \\ 27 \end{pmatrix}$

And add in equation 1

 $= \begin{pmatrix} -1 & 0 \\ 0 & 1 \\ 3 \\ 27 \end{pmatrix}$

And add in equation 1

 $= \begin{pmatrix} -1 & 0 \\ 0 & 1 \\ 3 \\ 27 \end{pmatrix}$

Multiply equation 1 by $= \begin{pmatrix} -1 & 0 \\ 0 & 1 \\ 3 \\ 27 \end{pmatrix}$

Authorized equation 1 by $= \begin{pmatrix} 1 & 0 \\ 0 & 1 \\ 4 \end{pmatrix}$

And $= \begin{pmatrix} 2/4 & -7/27 \\ 0 & 1 \\ 4/9 & 2/27 \end{pmatrix}$

(AT) $= \begin{pmatrix} 3/9 & -5/27 \\ 1/9 & 2/27 \end{pmatrix}$

JATISH KUMAR

$$A = \begin{pmatrix} 0 & 3 \\ 0 & 6 \end{pmatrix}$$

$$A | I = \begin{pmatrix} 0 & 3 | 1 & 0 \\ 0 & 6 | 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 0 & 3 | 1 & 0 \\ 0 & 6 | 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 0 & 3 | 1 & 0 \\ 0 & 0 | -2 & 1 \end{pmatrix}$$

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

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

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

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

The inverse matrix does not exist.

$$A^{T} = \begin{pmatrix} 0 & 0 \\ 3 & 6 \end{pmatrix}$$

$$A^{T}/I = \begin{pmatrix} 0 & 0 \\ 3 & 6 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}$$

$$A^{T}/I = \begin{pmatrix} 0 & 0 \\ 3 & 6 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}$$

$$A^{T}/I = \begin{pmatrix} 0 & 0 \\ 3 & 6 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}$$

$$A^{T}/I = \begin{pmatrix} 0 & 0 \\ 3 & 6 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 0 & 1 \end{pmatrix}$$

C)
$$A = \begin{pmatrix} 0 & C \\ C & 2 \end{pmatrix}$$
, $C \neq 0$

$$A \mid I = \begin{pmatrix} 0 & C \\ C & 2 \end{pmatrix} = \begin{pmatrix} 0 & C \\ C & 2 \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ C & 2 \end{pmatrix} =$$

JATISH KUMAR

$$A = \begin{pmatrix} 0 & C \\ C & 2 \end{pmatrix}, C \neq 0$$

$$A^{T} = \begin{pmatrix} 0 & C \\ C & 2 \end{pmatrix}$$

If In this equation the matrix $A = A^T$ it mean that it is symmatric. Then the $A^{-1} = (A^T)^{-1}$ is also some

$$(A^{T})^{-1} = \begin{pmatrix} -2/2 & 1/c \\ 1/c & 0 \end{pmatrix}$$

(AT) = A-1
But (AT) he flagg

Then this equation Matrix

Proved