

$$\textcircled{1} \quad G = \left\{ \begin{bmatrix} x & x \\ x & x \end{bmatrix} \mid x \in \mathbb{R} \setminus \{0\} \right\}$$

a) $\begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$ is identity element for G .

It is enough to prove that

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}$$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \\ x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}$$

b) Inverse of $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$ in G .

Let $\begin{bmatrix} y & y \\ y & y \end{bmatrix}$ be the inverse of $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$

$$\text{Therefore } \begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} 2xy & 2xy \\ 2xy & 2xy \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

Hence $2xy = \frac{1}{2}$, that is, $y = \frac{1}{4x}$.
The inverse of $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$ in G is $\begin{bmatrix} \frac{1}{4x} & \frac{1}{4x} \\ \frac{1}{4x} & \frac{1}{4x} \end{bmatrix}$

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Robert R. Redfield



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Joseph A Gallian earned his PhD from Notre Dame In addition to receiving numerous national awards for his teaching and exposition he has served terms as the Second Vice President and the President of the MAA He has served on 40 national committees chairing ten of them He has published over 100 articles and authored six books Numerous articles about his work have appeared in the national news outlets including the New York Times the Washington Post the Boston Globe and Newsweek among many others

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The Bulletin of Mathematics Books, 1992

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