



Inverse of 2x2 Matrix

Version 2

Name: _____

Date: _____

Score: _____

Direction: Find the inverse of each 2x2 matrix. Show all your work in the space provided.

1) $\begin{bmatrix} -7 & 3 \\ -1 & 1 \end{bmatrix}$

2) $\begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$

3) $\begin{bmatrix} \frac{2}{3} & 5 \\ 1 & -9 \end{bmatrix}$

4) $\begin{bmatrix} \frac{1}{2} & \frac{1}{3} \\ \frac{1}{4} & \frac{1}{5} \end{bmatrix}$



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1) $\begin{bmatrix} -7 & 3 \\ -1 & 1 \end{bmatrix}$

$$\begin{bmatrix} -\frac{1}{4} & \frac{3}{4} \\ -\frac{1}{4} & \frac{7}{4} \end{bmatrix}$$

2) $\begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$$

3) $\begin{bmatrix} \frac{2}{3} & 5 \\ 1 & -9 \end{bmatrix}$

$$\begin{bmatrix} \frac{9}{11} & \frac{5}{11} \\ \frac{1}{11} & -\frac{2}{33} \end{bmatrix}$$

4) $\begin{bmatrix} \frac{1}{2} & \frac{1}{3} \\ \frac{1}{4} & \frac{1}{5} \end{bmatrix}$

$$\begin{bmatrix} 12 & -20 \\ -15 & 30 \end{bmatrix}$$



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