

Inverting a 2 x 2 Matrix



Examples

1. $\begin{pmatrix} 2 & 3 \\ -1 & 5 \end{pmatrix}^{-1}$

2. $\begin{pmatrix} 6 & 1 \\ 3 & 4 \end{pmatrix}^{-1}$

3. $\begin{pmatrix} 7 & 2 \\ 1 & -3 \end{pmatrix}^{-1}$

Test Your Understanding

1. $\begin{pmatrix} 2 & 0 \\ 0 & 2 \end{pmatrix}^{-1}$

2. $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}^{-1}$

3.

For what value of p is $\begin{pmatrix} 4 & p + 2 \\ -1 & 3 - p \end{pmatrix}$ singular? Given p is not this value, find the inverse.

Matrix Proofs

