Inverting a 2 x 2 Matrix

Examples

$\left(\begin{matrix}2&3\\-1&5\end{matrix}\right)^{-1}$

$\left(\begin{matrix}6&1\\3&4\end{matrix}\right)^{-1}$

$\left(\begin{matrix}7&2\\1&-3\end{matrix}\right)^{-1}$

1.

2.

3.

Test Your Understanding

$\left(\begin{matrix}2&0\\0&2\end{matrix}\right)^{-1}$

$\left(\begin{matrix}1&2\\3&4\end{matrix}\right)^{-1}$

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

1.

2.

3.

Matrix Proofs

Ex 6D Pg 110