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| --- | --- |
| **Fill in the Blanks** | **Inverse of a 3x3 Matrix** |

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| --- | --- | --- | --- | --- | --- |
| **Matrix** $A$ | **det** $A$ | **Matrix of Minors** $M$ | **Matrix of Cofactors** $C$ | **Transpose of Cofactors** $C^{T}$ | **Inverse Matrix** $A^{-1}$ |
| $$\left(\begin{matrix}3&1&0\\0&2&0\\0&0&1\end{matrix}\right)$$ |  | $$\left(\begin{matrix}6&0&0\\1&3&0\\0&0&6\end{matrix}\right)$$ |  |  | $$\left(\begin{matrix}1&-\frac{1}{6}&0\\0&\frac{1}{2}&0\\0&0&1\end{matrix}\right)$$ |
| $$\left(\begin{matrix}0&-1&2\\2&3&-1\\1&1&0\end{matrix}\right)$$ |  |  |  |  |  |
| $$\left(\begin{matrix}3&2&0\\4&2&-1\\-2&0&1\end{matrix}\right)$$ |  |  |  |  |  |
| $$\left(\begin{matrix}1&-3&0\\4&-1&2\\1&0&1\end{matrix}\right)$$ |  |  |  |  |  |
| $$\left(\begin{matrix}2&a&0\\2&1&-2\\-1&0&1\end{matrix}\right)$$ |  |  |  |  |  |
| $$\left(\begin{matrix}-b&1&-1\\1&0&2\\b&-1&2\end{matrix}\right)$$ |  |  |  |  |  |