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Cartesian Unit Vectors

The inverse of a two-by-two matrix is given by

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix}^{-1} = \frac{1}{ad - bc} \begin{pmatrix} -d & -b \\ -c & -a \end{pmatrix}.$$

Given

$$\hat{\mathbf{r}} = \cos \theta \mathbf{i} + \sin \theta \mathbf{j}, \quad \hat{\boldsymbol{\theta}} = -\sin \theta \mathbf{i} + \cos \theta \mathbf{j},$$

invert a two-by-two matrix to solve for \mathbf{i} and \mathbf{j} .

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