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Compute the adjugate of the given matrix, and then use the Inverse Formula to give the inverse of the matrix.

A =
$$\begin{bmatrix} 5 & 0 & 0 \\ -3 & 1 & 0 \\ -4 & 2 & 1 \end{bmatrix}$$

0 0 3 5 0 The adjugate of the given matrix is adj A =

The inverse of the given matrix is $A^{-1} = \begin{bmatrix} \frac{1}{5} & 0 & 0 \\ \frac{3}{5} & 1 & 0 \\ -\frac{2}{5} & -2 & 1 \end{bmatrix}$

(Simplify your answers.)