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$$T(\vec{x}) = \begin{bmatrix} 3 & 5 \\ 2 & -1 \end{bmatrix} \vec{x}.$$

Find the matrix M of the inverse linear transformation T^{-1}.

$$M = \begin{bmatrix} \square & \square \\ \square & \square \end{bmatrix}$$

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$$M = \begin{bmatrix} 1/13 & 5/13 \\ 2/13 & -3/13 \end{bmatrix}$$