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## Math 2250, Fall 2011, Quiz 5October 7, 2011R. BrunerSuppose that $T \begin{bmatrix} 3 \\ 2 \end{bmatrix} = \begin{bmatrix} 5 \\ 2 \end{bmatrix}$ and $T \begin{bmatrix} 4 \\ 3 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$ .1. Express $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ as a linear combination of $\begin{bmatrix} 3 \\ 2 \end{bmatrix}$ and $\begin{bmatrix} 4 \\ 3 \end{bmatrix}$ .2. Use that to compute $T \begin{bmatrix} 1 \\ 0 \end{bmatrix}$ .3. Write the matrix form of T.