Name $\qquad$ Linear Algebra; Quiz 3

1) Find a matrix in reduced echelon form that is row-equivalent to $\left[\begin{array}{ccc}2 & 6 & 0 \\ 3 & 9 & 17 \\ 0 & 14 & 28\end{array}\right]$
2) Are the vectors $\left[\begin{array}{l}2 \\ 3 \\ 0\end{array}\right],\left[\begin{array}{c}6 \\ 9 \\ 14\end{array}\right]$, and $\left[\begin{array}{c}0 \\ 17 \\ 28\end{array}\right]$ linearly independent or linearly dependent? No justification required.
3) Consider your answer to part (1) as a linear transformation. Apply this transformation to the vector $\left[\begin{array}{l}2 \\ 5 \\ 1\end{array}\right]$.
