Quiz 3

Student ID Number:
Math 3A, 6 PM
Please justify all your answers
Please also write your full name on the back

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1. Are the vectors $\begin{bmatrix} 1 \\ -1 \\ 4 \end{bmatrix}$, $\begin{bmatrix} -2 \\ 1 \\ 3 \end{bmatrix}$, $\begin{bmatrix} 4 \\ -3 \\ 5 \end{bmatrix}$ linearly dependent?

- 2. True or False? Explain your reasoning.
 - (a) The columns of a 3×4 matrix are linearly dependent.

(b) The function f(x) = 5x - 3 is a linear transformation.