Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 13

Math 237 – Linear Algebra Fall 2017

Version 6

Show all work. Answers without work will not receive credit. You may use a calculator, but you must show all relevant work to receive credit for a standard.

Standar	d V2.	Mark:				
Determine if	$\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}$ is a lin	near com	bination of the vectors	$\begin{bmatrix} 3 \\ 0 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 4 \end{bmatrix}$, an	$\operatorname{nd} \begin{bmatrix} 5\\1\\-6 \end{bmatrix}.$

Determine if the set of vectors $\left\{ \begin{bmatrix} 3\\-1\\0\\4 \end{bmatrix}, \begin{bmatrix} 1\\2\\-2\\1 \end{bmatrix}, \begin{bmatrix} 3\\-8\\6\\5 \end{bmatrix} \right\}$ is linearly dependent or linearly independent.