Name:	
J#:	Dr. Clontz
Date:	

Math 237 – Linear Algebra Fall 2017

Version 1

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.

Sta	ndard V2.	Mark:				
Determin	ne if $\begin{bmatrix} 1\\4\\3 \end{bmatrix}$ is a li	near com	bination of the vectors	$\begin{bmatrix} 2\\3\\-1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix}$ , and	$1 \begin{bmatrix} -3 \\ -2 \\ 5 \end{bmatrix}.$

Standard S1.  $\begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}, \begin{bmatrix} 1 \\ 3 \\ -2 \end{bmatrix}$  is linearly dependent or linearly independent

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## $\mathbf{MASTERY}\ \mathbf{QUIZ}\ \mathbf{DAY}\ \mathbf{13}$

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Version 2

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.

Standard V2.	Mark:					
Determine if $\begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix}$ can be	written	as a linear combination of the vectors	$\begin{bmatrix} -1\\ -9\\ 15 \end{bmatrix}$	and	$\begin{bmatrix} 1 \\ 5 \\ -5 \end{bmatrix}$	•

Standard S1.  $\begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix}, \begin{bmatrix} 1 \\ 3 \\ -2 \end{bmatrix}$  is linearly dependent or linearly independent

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# $\begin{array}{c} {\rm MASTERY~QUIZ~DAY~13} \\ {\rm Version~3} \end{array}$

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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.

Standard 7	V2.	Mark:						
Determine if $\begin{bmatrix} 0 \\ 1 \\ -1 \end{bmatrix}$		oe writte	en as a linear combination of the vectors	$\begin{bmatrix} 5\\2\\-3\\2 \end{bmatrix}$	,	$\begin{bmatrix} 3 \\ 1 \\ 1 \\ 0 \end{bmatrix}$ , and	$\begin{bmatrix} 8 \\ 3 \\ 5 \\ -1 \end{bmatrix}.$	

Standard S1.  $\begin{bmatrix} 1\\1\\-1 \end{bmatrix}, \begin{bmatrix} 3\\-1\\1 \end{bmatrix}, \text{ and } \begin{bmatrix} 2\\0\\-2 \end{bmatrix} \text{ are linearly dependent or linearly independent}$ 

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Version 4

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.

Standard	d V	2.	Mark:							
Determine if	$\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}$ i	is a lin	ear com	bination of the vector	ors	$\begin{bmatrix} 3 \\ 0 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 4 \end{bmatrix}$	, and	$\begin{bmatrix} 5 \\ 1 \\ -6 \end{bmatrix}$	•

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.

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Math 237 – Linear Algebra Fall 2017

Version 5

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.

Standard V2.	Mark:				
Determine if $\begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix}$ can be	written	as a linear combination of the vectors	$\begin{bmatrix} -1\\ -9\\ 15 \end{bmatrix}$	and	$\begin{bmatrix} 1 \\ 5 \\ -5 \end{bmatrix}.$

Standard S1.

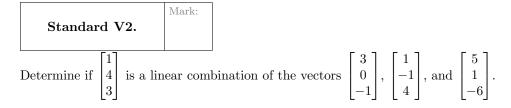
Determine if the set of vectors  $\left\{ \begin{bmatrix} -3 \\ 8 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 3 \end{bmatrix} \right\}$  is linearly dependent or linearly independent

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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.



Standard S1.

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