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.

Standard V2.	Mark:				
Determine if $\begin{bmatrix} 0 \\ -1 \\ 2 \\ 6 \end{bmatrix}$ can l	oe writte	en as a linear combination of the vectors	$\begin{bmatrix} 3 \\ -1 \\ -1 \\ 0 \end{bmatrix}$	and	$\begin{bmatrix} -1\\0\\1\\2 \end{bmatrix}.$

Standard S1.

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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MASTERY QUIZ DAY 13 Version 2

Math 237 – Linear Algebra Fall 2017

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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 3

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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 V2.

Mark:

Determine if
$$\begin{bmatrix} 4 \\ -1 \\ 6 \\ -7 \end{bmatrix}$$
 belongs to the span of the set $\left\{ \begin{bmatrix} 2 \\ 0 \\ -1 \\ 5 \end{bmatrix}, \begin{bmatrix} 4 \\ -1 \\ 4 \\ 3 \end{bmatrix} \right\}$.

Standard S1.

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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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.

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

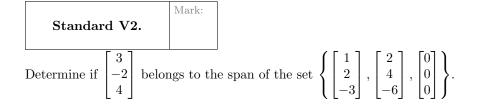
Determine if the set of matrices $\left\{ \begin{bmatrix} 3 & -1 \\ 0 & 4 \end{bmatrix}, \begin{bmatrix} 1 & 2 \\ -2 & 1 \end{bmatrix}, \begin{bmatrix} 3 & -8 \\ 6 & 5 \end{bmatrix} \right\}$ is linearly dependent or linearly independent.



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Version 5 Fall 2017 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.

Mark:

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.

Name:	
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$\mathbf{MASTERY}\ \mathbf{QUIZ}\ \mathbf{DAY}\ \mathbf{13}$

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	rd V2.	Mark:				
Determine if	$\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}$ is a line	near com	bination of the vectors	$\begin{bmatrix} 3 \\ 0 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 4 \end{bmatrix}, a$	and $\begin{bmatrix} 5\\1\\-6 \end{bmatrix}$.

Standard S1.

Mark:

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.