Name:	
J#:	Dr. Clontz
Date:	

Math 237 – Linear Algebra Fall 2017

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

Standard S1.

Mark:

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.

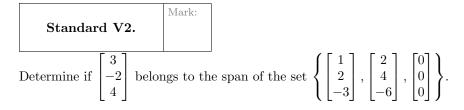
|--|

Name:	
J#:	Dr. Clontz
Date:	

Math 237 – Linear Algebra Fall 2017

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 S1.

Mark:

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.

Additional Notes/Marks

Name:	
J#:	Dr. Clontz
Date:	

Math 237 – Linear Algebra Fall 2017

Version 3

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.

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.

Additional Notes/Marks

Name:	
J#:	Dr. Clontz
Date:	

Math 237 – Linear Algebra Fall 2017

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	$\begin{bmatrix} 2\\3\\-1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix}$	, and	$\begin{bmatrix} -3\\-2\\5 \end{bmatrix}$	

Standard S1.	lark:

Determine if the set of polynomials  $\{x^2 + x, x^2 + 2x - 1, x^2 + 3x - 2\}$  is linearly dependent or linearly independent

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Name:	
J#:	Dr. Clontz
Date:	

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	d V2.	Mark:					
Determine if	$\begin{bmatrix} 0 \\ -1 \\ 2 \\ 6 \end{bmatrix} $ can be	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 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.

|--|

Name:	
J#:	Dr. Clontz
Date:	

# $\begin{array}{c} {\rm MASTERY~QUIZ~DAY~13} \\ {\rm Version~6} \end{array}$

Math 237 – Linear Algebra 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 V2.

Mark:

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

Standard S1.	Mark:			
Determine if the vectors	$\begin{bmatrix} 1 \\ 1 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 3 \\ -1 \\ 1 \end{bmatrix}$ , and $\begin{bmatrix} -1 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 2 \\ 0 \\ -2 \end{bmatrix} $	are linearly dependent or linearly independent

Additional Notes/Marks