Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 15

all relevant work to receive credit for a standard.

Math 237 – Linear Algebra Fall 2017

Version 6 Fall 2017 Show all work. Answers without work will not receive credit. You may use a calculator, but you must show

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

Standard S1. $\begin{bmatrix} -3 \\ 8 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 3 \end{bmatrix}$ is linearly dependent or linearly independent

Standard S3.

Mark:

Let W be the subspace of \P_2 given by $W = \text{span}\left(\left\{-3x^2 - 8x, x^2 + 2x + 2, -x + 3\right\}\right)$. Find a basis for W.

Standard S4. $\begin{bmatrix} 1 \\ 1 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} 3 \\ 3 \\ 6 \\ 3 \end{bmatrix}, \begin{bmatrix} 3 \\ -1 \\ 3 \\ -2 \end{bmatrix}, \begin{bmatrix} 7 \\ -1 \\ 8 \\ -3 \end{bmatrix}$. Find the dimension of W.

Additional Notes/Marks