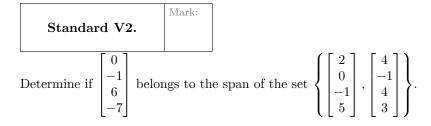
Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 15

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.



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.

Standard S3.	Mark:
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Let W be the subspace of \mathcal{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. Mark:

Let W be the subspace of \mathcal{P}_3 given by $W = \mathrm{span}\left(\left\{x^3-x^2+3x-3,2x^3+x+1,3x^3-x^2+4x-2,x^3+x^2+x-7\right\}\right)$. Compute the dimension of W.

Additional Notes/Marks