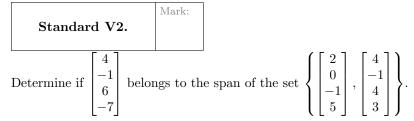
Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 11

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.



Solution: Since

RREF
$$\begin{pmatrix} \begin{bmatrix} 2 & 4 & | & 4 \\ 0 & -1 & | & -1 \\ -1 & 4 & | & 6 \\ 5 & 3 & | & -7 \end{bmatrix} \end{pmatrix} = \begin{bmatrix} 1 & 0 & | & 0 \\ 0 & 1 & | & 0 \\ 0 & 0 & | & 1 \\ 0 & 0 & | & 0 \end{bmatrix}$$

contains the contradiction 0 = 1, $\begin{bmatrix} 4 \\ -1 \\ 6 \\ -7 \end{bmatrix}$ is not a linear combination of the three vectors.

Additional Notes/Marks