Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 26

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.



Let

$$A = \begin{bmatrix} 1 & 3 & -1 & -1 \\ 0 & 0 & 7 & 2 \end{bmatrix} \qquad B = \begin{bmatrix} 0 & 1 & 7 & 7 \\ -1 & -2 & 0 & 4 \\ 0 & 0 & 1 & 5 \end{bmatrix} \qquad C = \begin{bmatrix} 3 & 2 \\ 0 & 1 \\ -2 & -1 \end{bmatrix}$$

Determine which of the six products AB, AC, BA, BC, CA, CB can be computed, and compute them.

	Ma	rk:			
Standard M2.					
Determine if the matrix	$\begin{bmatrix} 2 \\ 1 \\ 3 \\ 4 \end{bmatrix}$	$ \begin{array}{c} 1 \\ -1 \\ 2 \\ 1 \end{array} $	$ \begin{array}{c} 0 \\ 3 \\ -1 \\ 2 \end{array} $	3 1 7 0	is invertible

Standard M3.

Compute the inverse of the matrix
$$\begin{bmatrix} 1 & 2 & 3 & 0 \\ 0 & -1 & 4 & -2 \\ 0 & 0 & 1 & 3 \\ 0 & 0 & 0 & 1 \end{bmatrix}.$$

Mark:

 ${\bf Additional\ Notes/Marks}$