

Name:
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Dr. Clontz

# **MASTERY QUIZ DAY 29**

Math 237 – Linear Algebra

## **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.

<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix

$$\begin{bmatrix} 1 & 3 & 2 & 4 \\ 5 & 0 & -4 & 0 \\ -2 & 3 & -1 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}.$$

<b>Standard G3.</b>	Mark:
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Compute the eigenspace of the eigenvalue  $-1$  in the matrix  $\begin{bmatrix} 4 & -2 & -1 \\ 15 & -7 & -3 \\ -5 & 2 & 0 \end{bmatrix}.$

<b>Standard G4.</b>	Mark:
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Compute the geometric multiplicity of the eigenvalue 2 in the matrix
 
$$\begin{bmatrix} -1 & 1 & 0 \\ -9 & 5 & 0 \\ 15 & -5 & 2 \end{bmatrix}.$$

<b>Additional Notes/Marks</b>	
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