

Name:
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Date:

Dr. Clontz

# MASTERY QUIZ DAY 29

Math 237 – Linear Algebra

## Version 6

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  $\begin{bmatrix} 8 & 5 & 3 & 0 \\ 3 & 2 & 1 & 1 \\ 5 & -3 & 1 & -2 \\ -1 & 2 & 0 & 1 \end{bmatrix}$ .

<b>Standard G3.</b>	Mark:
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Find the eigenspace associated to the eigenvalue 1 in the matrix  $A = \begin{bmatrix} -3 & 1 & 0 \\ -8 & 2 & -1 \\ 0 & 2 & 3 \end{bmatrix}$

<b>Standard G4.</b>	Mark:
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Compute the geometric multiplicity of the eigenvalue 1 in the matrix  $A = \begin{bmatrix} 9 & -3 & 2 \\ 19 & -6 & 5 \\ -11 & 4 & -2 \end{bmatrix}$

<b>Additional Notes/Marks</b>	
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