

Name:
J#:
Date:

Dr. Clontz

# MASTERY QUIZ DAY 27

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  $\begin{bmatrix} 3 & -1 & 0 & 7 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 0 & 0 & 0 & 1 \end{bmatrix}$ .

**Solution:** 2

□

<b>Additional Notes/Marks</b>	
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Math 237 – Linear Algebra

## Version 2

Fall 2017

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<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix  $\begin{bmatrix} 3 & -1 & 0 & 7 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 0 & 0 & 0 & 1 \end{bmatrix}$ .

**Solution:** 2

□

<b>Additional Notes/Marks</b>	
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Math 237 – Linear Algebra

### Version 3

Fall 2017

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<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix  $\begin{bmatrix} 3 & -1 & 0 & 4 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 1 & -2 & 0 & 0 \end{bmatrix}$ .

**Solution:**

$$\det \begin{bmatrix} 3 & -1 & 0 & 4 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 1 & -2 & 0 & 0 \end{bmatrix} = -\det \begin{bmatrix} -1 & 0 & 4 \\ 1 & 1 & -1 \\ 1 & 1 & 3 \end{bmatrix} + (-2) \det \begin{bmatrix} 3 & 0 & 4 \\ 2 & 1 & -1 \\ 0 & 1 & 3 \end{bmatrix} = -1(-4) + (-2)(20) = -36$$

□

<b>Additional Notes/Marks</b>	
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# MASTERY QUIZ DAY 27

Math 237 – Linear Algebra

## Version 4

Fall 2017

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<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix  $\begin{bmatrix} 2 & 3 & 0 & 1 \\ -1 & 3 & 1 & 4 \\ 0 & 2 & 0 & 3 \\ 1 & -1 & 3 & 5 \end{bmatrix}$ .

**Solution:**  $-60$ .

□

<b>Additional Notes/Marks</b>	
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# MASTERY QUIZ DAY 27

Math 237 – Linear Algebra

## Version 5

Fall 2017

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<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix  $\begin{bmatrix} 3 & -1 & 0 & 7 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 0 & 0 & 0 & 1 \end{bmatrix}$ .

**Solution:** 2

□

<b>Additional Notes/Marks</b>	
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# MASTERY QUIZ DAY 27

Math 237 – Linear Algebra

## Version 6

Fall 2017

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<b>Standard G1.</b>	Mark:
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Compute the determinant of the matrix  $\begin{bmatrix} 3 & -1 & 0 & 7 \\ 2 & 1 & 1 & -1 \\ 0 & 1 & 1 & 3 \\ 0 & 0 & 0 & 1 \end{bmatrix}$ .

**Solution:** 2



<b>Additional Notes/Marks</b>	
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