

Quiz 2

⚠ This is a preview of the published version of the quiz

Started: Sep 17 at 7:47pm

Quiz Instructions

Once you open this quiz, you will have 25 minutes to submit it. You will have only **one** submission attempt. The quiz must be **submitted** by 7:59 PM (Atlanta time) on Friday, Sep 4. There are 5 questions after the honor code pledge.

Question 1

0 pts

Please read and attest to the honor statement below:

I understand that this assessment is open-book and open-note, but not open-internet. I may use my class notes, my instructor's notes, and the ILA textbook at <https://textbooks.math.gatech.edu/ila/ila.pdf> (<https://textbooks.math.gatech.edu/ila/ila.pdf>).

However, I will not visit any other websites, use any search engines, or use any calculators or computer aids whatsoever (Matlab, Mathematica, Chegg.com, Geogebra, etc.) as I take this assessment.

This assessment is completely my own work. I will not discuss the answers or any of the contents of this assessment with anyone until the time it is due.

- I attest to my integrity, and I understand that any suspected violation of this policy may be prosecuted to the fullest extent allowable by Georgia Tech.

Question 2

1 pts

Which of these matrices is in reduced row echelon form? Select all that apply.

$$A. \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix} \quad B. \begin{pmatrix} 1 & 2 \\ 0 & 0 \end{pmatrix} \quad C. (0 \ 1) \quad D. \left(\begin{array}{c|c} 0 & 1 \\ 1 & 0 \end{array} \right)$$

 A B C D**Question 3****1 pts**

Suppose I have a system of 7 linear equations in 4 variables. What is the largest number of pivots that the corresponding augmented matrix can have? Your answer should be a number.

Question 4**1 pts**

Consider the following augmented matrix.

$$\left(\begin{array}{ccc|c} 1 & -2 & 0 & 5 \\ 0 & 0 & 1 & -1 \end{array} \right)$$

What best describes the set of solutions to the corresponding system of linear equations?

 a line in \mathbb{R}^3 a plane in \mathbb{R}^3 a line in \mathbb{R}^2

no solution

Question 5**1 pts**

Consider the following augmented matrix.

$$\left(\begin{array}{cc|c} 1 & 2 & 3 \\ 0 & 4 & 5 \\ 0 & 0 & 6 \end{array} \right)$$

What best describes the set of solutions to the corresponding system of linear equations?

a line in \mathbb{R}^3

a plane in \mathbb{R}^3

a line in \mathbb{R}^2

no solution

Question 6**1 pts**

Find the value of h so that the linear system corresponding to the following augmented matrix is consistent. Your answer should be a number.

$$x - y = 3$$

$$x = 7$$

$$3x + 2y = h$$

Not saved

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