Quiz 1

⚠ 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, August 28. 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

Find the value of h that makes the following system of equations consistent:

$x+y-z=8$

$3x+3y-3z=h$

[   ]

Question 3   **1 pts**

If a system of linear equations has 5 equations and 7 variables, then it must have infinitely many solutions.

○ True

○ False

Question 4   **1 pts**

Recall that the general equation for a circle is $A(x^2+y^2) + Bx + Cy + D = 0$. Find an equation for the circle passing through the points (0,0), (1,0), and (0,7), where A=1. Your answer will be of the form $(x^2+y^2) - x + Cy = 0$. What is C?

[   ]

Question 5   **1 pts**

Suppose we have two linear equations in three variables. Which of the following are possibilities for the set of solutions to this system? Select all that apply.

☐ No solution

☐ A line in R^3

☐ One point in R^3

☐ A plane in R^3

Question 6   **1 pts**

Consider the following system of linear equations:

$x + y + z = 3$

$x + y - z = 1$

$2x + y + 3z = 6$

Which of the following points in $\mathbb{R}^3$ is a solution to the system? Select all that apply.

☐ (1,1,1)

☐ (0,0,0)

☐ (3,0,0)

☐ (2,0,1)

Not saved   Submit Quiz