

Quiz #1

Please print your name:

Problem 1. Consider the following system of linear equations:

$$\begin{aligned}x_1 + 2x_2 - x_3 &= 5 \\x_1 + 3x_2 + 4x_3 &= 1 \\3x_1 - 2x_2 + x_3 &= 3\end{aligned}$$

- (a) Write down the augmented matrix for the system.
- (b) Using Gaussian elimination, determine the RREF. (Make sure to record all your row operations!)
- (c) From the RREF, read off the solution to the linear system.