

MA 265: Quiz 1

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Problem 1.1. (5 pts.) Using the method of elimination, determine if the following system of equations has a solution, no solution or many solutions:

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

Problem 1.2. (5 pts.) Given the matrices

$$A := \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix} \quad B := \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$$

find

$$2A + 3B^T.$$