

MA 262 - Quiz 4 (Lessons 7–8)

1. Find a solution to the system of linear equations

$$2x_1 + x_2 + x_3 = 2$$

$$2x_2 + x_3 = -1$$

$$-x_1 + x_3 = 0 .$$

2. Determine whether the vector $\begin{bmatrix} 0 \\ 6 \\ 8 \end{bmatrix}$ is a linear combination of

the vectors $\begin{bmatrix} -1 \\ 2 \\ 3 \end{bmatrix}$, $\begin{bmatrix} -2 \\ 1 \\ 2 \end{bmatrix}$, and justify.