

Name _____ Quiz 1

1) Find one solution of the system of equations below.

$$\begin{aligned}x_1 - 2x_2 + x_3 + 2x_4 + x_5 &= 0 \\x_3 - x_4 + 3x_5 &= 5\end{aligned}$$

2) What are the free variables in the system of equations above?

3) Compute the matrix multiplication problem below.

$$\begin{bmatrix} 3 & 1 & -2 & 4 \\ 1 & 0 & 2 & -1 \\ 0 & 1 & 2 & -1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 1 \\ 0 & 2 & 1 \\ 1 & 0 & 1 \\ 0 & -1 & 1 \end{bmatrix}$$