

Quiz 1

1. Solve the following homogeneous system and write the solution in parametric vector form.

$$\begin{aligned}x_1 + 3x_2 - 5x_3 &= 0 \\x_1 + 4x_2 - 8x_3 &= 0 \\-3x_1 - 7x_2 + 9x_3 &= 0\end{aligned}$$

2. Solve the following system and write the solution in parametric vector form.

$$\begin{aligned}x_1 + 3x_2 - 5x_3 &= 4 \\x_1 + 4x_2 - 8x_3 &= 7 \\-3x_1 - 7x_2 + 9x_3 &= 16\end{aligned}$$