

Math 302 – 02 Quiz 2

(A)

Name:.....Serial#:.....

Q.1: Find the general solution of the system and write it as a column matrix or sum of column matrices

$$\begin{aligned} -3x_1 + x_2 - x_3 + x_4 + x_5 &= 0 \\ x_2 + x_3 + 4x_5 &= 0 \\ -3x_3 + 2x_4 + x_5 &= 0 \end{aligned}$$

Q.2: Find the general solution of the system or show that it has no solution

$$\begin{aligned} -4x_1 + 5x_2 - 6x_3 &= 2 \\ 2x_1 - 6x_2 + x_3 &= -5 \\ -6x_1 + 16x_2 - 11x_3 &= 1 \end{aligned}$$