

Quiz 5

1. Bring the following homogeneous system to row-reduced echelon form

$$3x_1 + 3x_2 + 2x_3 + 4x_4 = 0$$

$$6x_1 + 6x_2 + 2x_3 + 10x_4 = 0$$

Then write the solution set as the span of vectors (the parameters coming from the free variables).

2. In the matrix A corresponding to the system $A\mathbf{x} = \mathbf{0}$ above, show that the pivot columns of A (the original A , not its row-reduced equivalent) are linearly independent.