Math 302-123	Quiz 1
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Q.1: Let $S = \{(x, y, x) | ax + by + cz = 0, a, b, c \text{ are real} \}$ be a subset of 3 - D space. Show that S is a subspace of \mathbb{R}^3

Q.2: Solve the linear system
$$x_1 - 2x_2 + x_3 = 2 \\ 3x_1 - x_2 + 2x_3 = 5 \\ 2x_1 + x_2 + x_3 = 1$$