

Time: 15 mins

Name:

Std. Number:

Quiz 1 (Vector Spaces)

Questions

1. Define continuous-time, discrete-time and digital signal.
2. What is the difference between the following spaces?
 - Vector space
 - Banach space
 - Hilbert Space
3. Let $B = \{b_1, b_2, \dots, b_m\}$ be a subset of \mathbb{R}^n which are pairwise orthogonal and none of them is zero. prove that they are linearly independent.