

Test 1 - No.2

DSP

Exercises

1. Characterize the system $y[n] = n \cdot x[n - 3] + \sin(x[n])$ in terms of:
 - a. (2.25p) Memory
 - b. (2.25p) Linearity
 - c. (2.25p) Time invariance
 - d. (2.25p) Causality
 - e. (2.25p) Stability

Justify all answers!