

Test 1 - No.3 - Retest

DSP

Exercises

1. Characterize the system $y[n] = x[n + 1] + (x[n])^2 + 2x[n - 1]$ in terms of:
 - a. (1.8p) Memory
 - b. (1.8p) Linearity
 - c. (1.8p) Time invariance
 - d. (1.8p) Causality
 - e. (1.8p) Stability

Justify all answers!