



PROBLEM:

For each of the following systems, determine if they are (1) linear; (2) time-invariant; (3) causal.

(a) $y[n] = 3x[n - 1] + x[n] + 3x[n + 1]$

(b) $y[n] = x[n] \cos(.3\pi n)$

(c) $y[n] = |x[-n]|$