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) \( y[n] = x[n] \cos(0.3\pi n) \)

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