- 1.28. Determine which of the properties listed in Problem 1.27 hold and which do no hold for each of the following discrete-time systems. Justify your answers. In each example, y[n] denotes the system output and x[n] is the system input.
 - (a) y[n] = x[-n]
- **(b)** y[n] = x[n-2] 2x[n-8]
- (c) y[n] = nx[n]
- (d) $y[n] = \mathcal{E}v\{x[n-1]\}$
- (e) $y[n] = \begin{cases} x[n], & n \ge 1 \\ 0, & n = 0 \\ x[n+1], & n \le -1 \end{cases}$ (f) $y[n] = \begin{cases} x[n], & n \ge 1 \\ 0, & n = 0 \\ x[n], & n \le -1 \end{cases}$
- (g) y[n] = x[4n+1]

- (1) Memoryless
- (2) Time invariant
- (3) Linear
- (4) Causal
- (5) Stable