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Chapter 2

2.1 Classify each of the following signals as finite or infinite. For the finite signals, find the smallest integer N such that $x(k) = 0$ for $|k| > N$.

- (a) $x(k) = \mu(k - 5) - \mu(k - 5)$
- (b) $x(k) = \sin(2k\pi/k)$
- (c) $x(k) = \cos(k^2 - 5) \theta(k)$
- (d) $x(k) = \mu(k) - k \delta(k)$
- (e) $x(k) = \tan^{-1} [2k / (\pi k^2 + \pi k - 100)]$
- (f) $x(k) = \delta(k) + \cos(\pi k) - (-1)^k$
- (g) $x(k) = k^{-3} \cos(5k)$

Solution

- (a) finite, $N = 5$
- (b) infinite
- (c) finite, $N = 2$
- (d) finite, $N = 1$
- (e) finite, $N = 99$
- (f) finite, $N = 0$
- (g) infinite

2.2 Classify each of the following signals as causal or noncausal.

- (a) $x(k) = \max(k, 0)$
- (b) $x(k) = \sin(2k\pi/k)$
- (c) $x(k) = 1 - \exp(-k)$
- (d) $x(k) = \cos(\pi k)$
- (e) $x(k) = \tan^{-1} [2k / (\pi k^2 + \pi k - 100)]$
- (f) $x(k) = \cos(\pi k) + (-1)^k$
- (g) $x(k) = \sin(5k) / (1 + k^2)$

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