

**EE322 Fall 12 Homework Problem Set 12 (PS12)**

Important: When proving system properties, SHOW YOUR WORK!

1. Text, Problem 4-2, except let  $R_1=R_2=4\Omega$ .
2. Text, Problem 4-8.
3. A system is described by  $y(t) = tri(x(t))$ . Determine whether this system is:
  - a. Causal
  - b. Memoryless
  - c. BIBO stable
  - d. Linear
  - e. Time-invariant
4. A system is described by  $y(t) = x(3-t)$ . Determine whether this system is:
  - a. Memoryless
  - b. BIBO stable
  - c. Time-invariant