

Name: _____

EE432 Fall 2008 Quiz 07

1. A system has impulse response $h[n] = (-1.1)^n u[n]$.
 - a. Is the system causal?

 - b. Is the system IIR or FIR?

 - c. Is the system stable?

 - d. Is the system Recursive or non-recursive?

2. A system has impulse response $h[n] = 0.5\delta[n-1] - 0.25\delta[n-10]$.
 - a. Is the system causal?

 - b. Is the system IIR or FIR?

 - c. Is the system stable?

 - d. Is the system Recursive or non-recursive?

3. A system is described by: $y[n] - y[n-1] - \frac{1}{4}x[n] = -\frac{1}{4}x[n-4]$.

a. Is the system causal?

b. Is the system IIR or FIR? Are you sure?

c. Is the system stable?

d. Find the impulse response.

Bonus: Where were the Boer Wars fought?