

ECE-486 Spring 2008, Jan 25 Quiz

Name : \_\_\_\_\_

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A discrete-time system is described by the difference equation

$$y(n] + 0.9y(n - 1) = x(n)$$

1. Find the impulse response of the system.
2. Give an equation for the system output  $y(n)$  for the input signal illustrated below. Assume  $n > 5$ .

