Serial #

…0…

**-1 points for not writing your serial #**

**King Fahd University of Petroleum & Minerals**

Electrical Engineering Department

EE207: Signals & Systems (121)

**Quiz 2: Continuous-Time Linear Time-Invariant Systems**

**Dr. Ali Hussein Muqaibel**

Name: Key Ver.1

Consider an integrator LTI system which has the impulse response

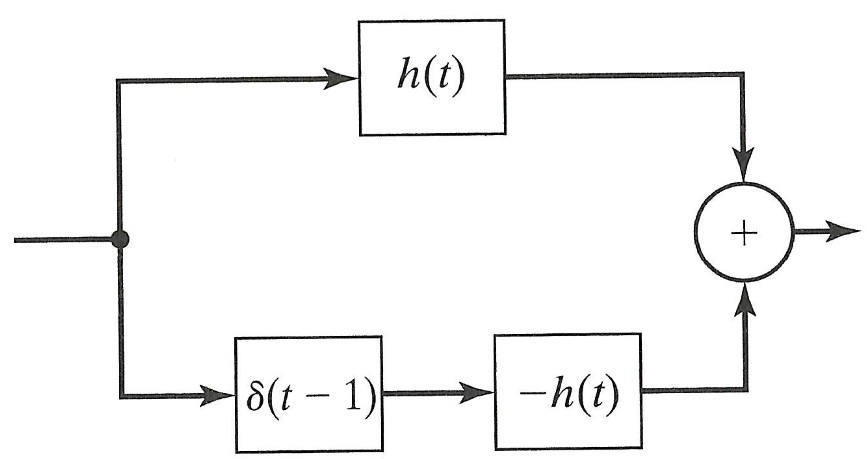
1. Using the convolution integral, find the system response, , to the input , **(5 points)**

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1. Is this system BIBO stable or not? Justify your answer. **(2 points)**

The system is NOT BIBO stable because the following test integral is not bounded

1. Consider the interconnections of the LTI systems given in the figure below, where *h(t)* is the impulse response of the integrator. Find the impulse response of the total system. *Simplify your answer*. **(3 points)**



Total response

For the given example

All questions in this quiz are similar to the questions in the last HW assignment

**Good luck, Dr. Ali Muqaibel**