## 301 Homework No. 5

1. Consider a causal system with impulse response  $h(t) = e^{t} u(t)$ .

Is h1t) absolutely integrable?

Determine the system function H(S).

Plot the pole of H(s) in the s-plane

and indicate the ROC of H(5).

Problems 9.29 9.31

in Chapter 9 of the Kent "Signals and Systems"
by A. V. Oppenheim and A.S. Willsky
2 nd edition, Prentice Hall, 1997.