Unified Engineering II

Spring 2004

Problem S1 (Signals and Systems)

1. Find and plot the step response of the system



where $L_1 = L_2 = 2$ H, $R_1 = 2 \Omega$, and $R_2 = 3 \Omega$.

2. For the input signal

$$u(t) = \begin{cases} 0, & t < 0\\ 2, & 0 \le t < 1\\ -1, & t \ge 1 \end{cases}$$

find and plot the output y(t), using superposition.