1) Find the outputs of each the circuits below; identify the zero state response, the zero input response, and the total response.

2)(a) Write a Matlab script to find the zero input, zero state, and total response of the circuit below.
(b) Discuss how you would use Matlab to plot the total response of the circuit below.
3) Consider the circuit below with $k = 1$ and $2$. Find the natural response of the circuit for each value of $k$. Compare your results with the responses of the circuits found in HW 4.

4) A&S 16.45, 16.48, 16.49