EECS2602 Assignment 7, submission deadline: Mar. 21, 2017

1. Given the frequency response of the following transfer functions:

(a) $H_1(s) = \dfrac{1.88 \times 10^8 (s + 2\pi \times 40k)}{(s + 2\pi \times 300k)(s + 2\pi \times 20k)}$

(b) $H_2(s) = \dfrac{2.37 \times 10^{14} \times s^2}{(s + 2\pi \times 3M)(s + 2\pi \times 100k)(s + 2\pi \times 4k)(s + 2\pi \times 20k)}$

(1) Determine H_0, initial phase and final phase.
(2) Sketch the gain and phase responses.

2. Given the following Bode plot, derive the transfer function.