Post-Lab Questions (2 marks in total, 2/3 marks for each questions):

- (1) By considering your plots on Graph (4.1) and the Multisim plots from prelab, answer the following:
 - a) How is the maximum rate of attenuation of $|H(\omega)|$ affected by Q?
 - b) What is so special about the magnitude response when $Q = 1/\sqrt{2}$?
 - c) How do the phase responses compare as a function of Q?

(2) What effect does the value of Q have on the frequency responses of the band-pass filter circuit?

(3) Is it practically feasible to realize a band-pass characteristic with $f_o=5kHz$ and Q=100, using the active-filter circuit shown in Fig (4.2) with $C=0.01~\mu F$? Explain your answer.