

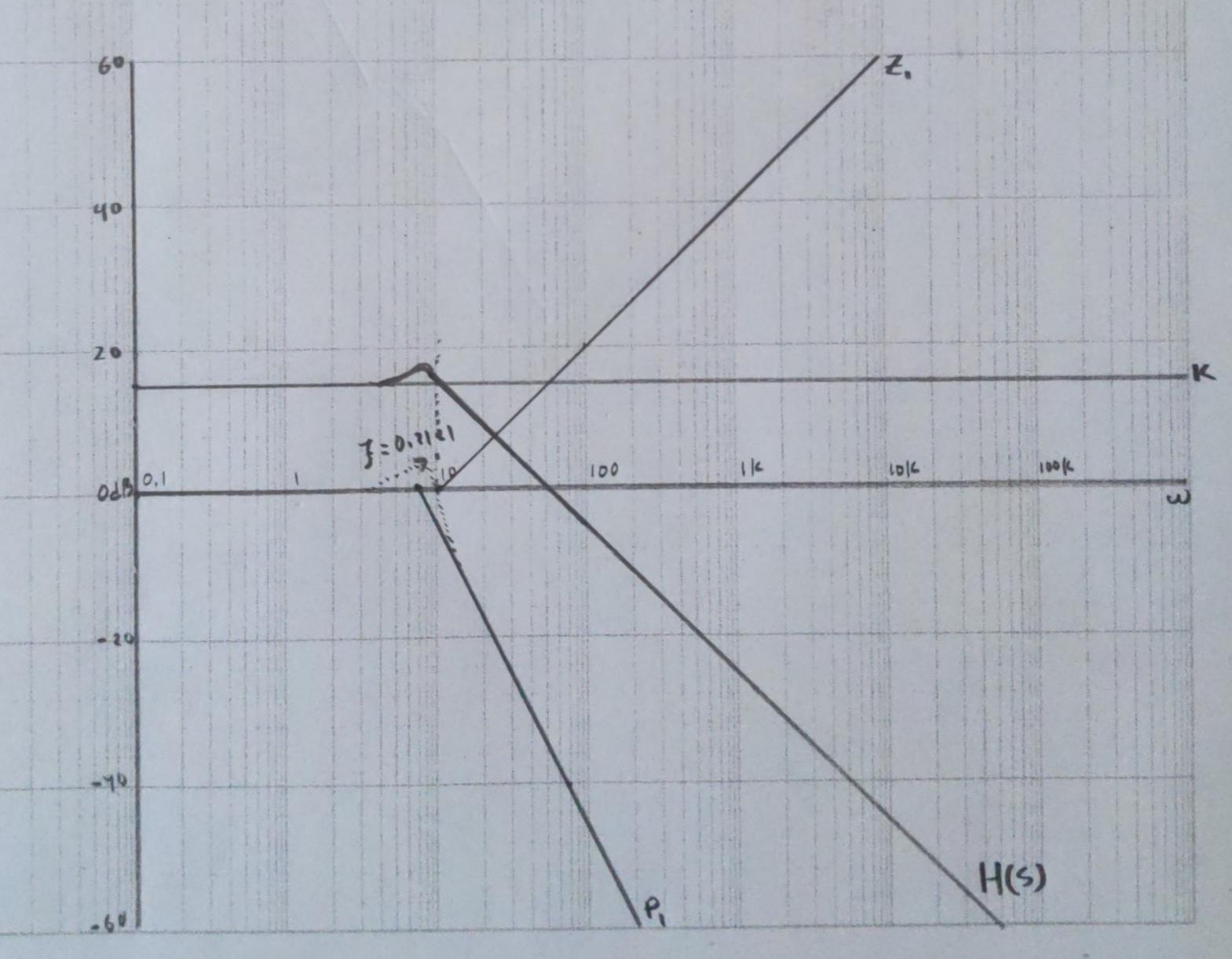
## LBCC - ENGR

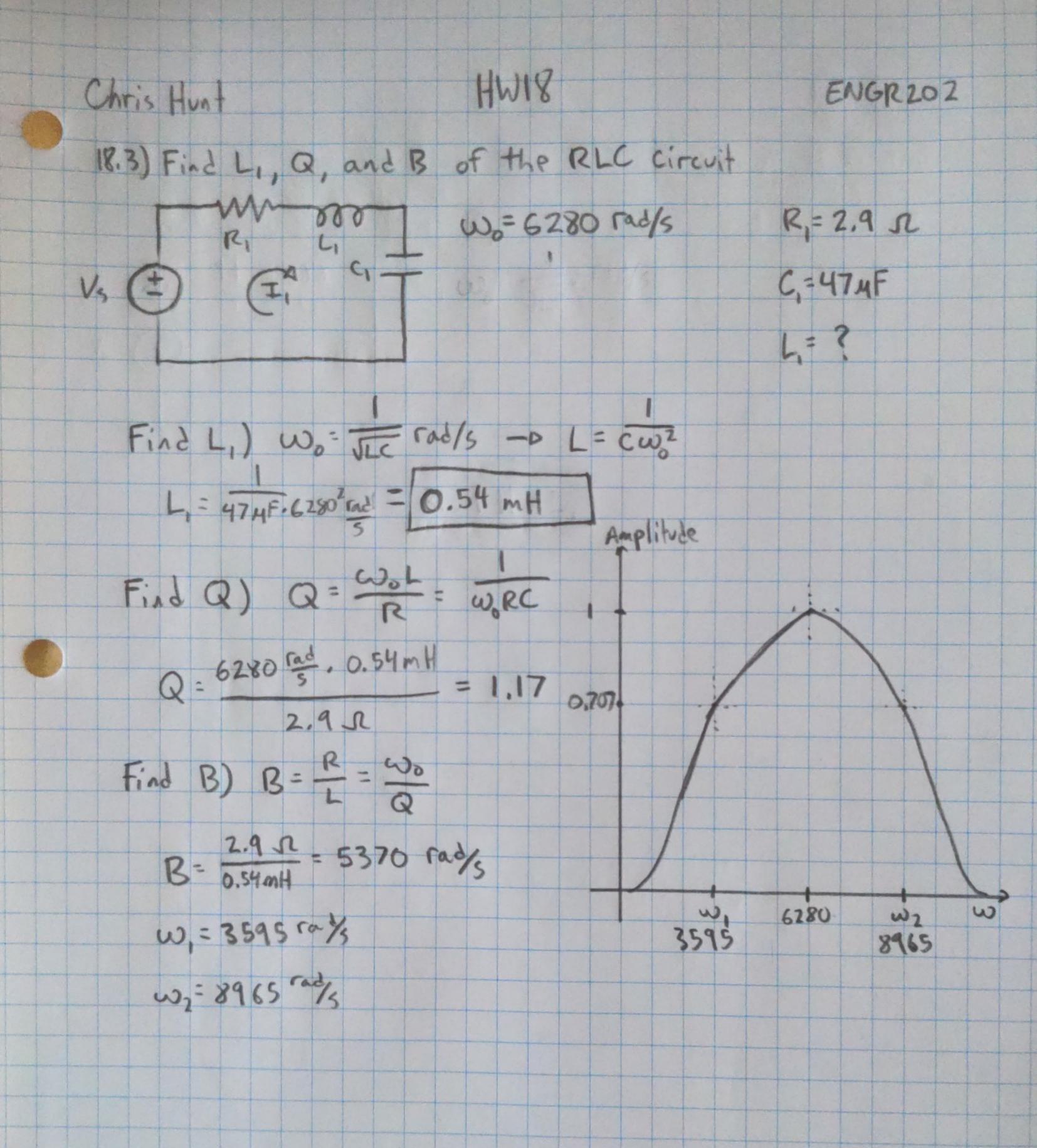
NAME Chris Hunt DATE

$$H(s) = \frac{30(5+10)}{S^{2}+3s+50} \qquad S^{2}+3s+50 \qquad Wh^{2}=50 \qquad 20(5+3) \qquad 3Wh=02$$

$$S^{2}+20(5+10) \qquad Wh=\sqrt{50} \qquad W=\frac{3}{2} \qquad F=\frac{3\sqrt{50}}{100}:0,2121$$

$$H(s) = \frac{30(5+10)}{S^{2}+3s+50} \qquad \frac{30\cdot10\left(\frac{5}{10}+1\right)}{S^{2}+25W_{1}5+W_{1}^{2}}\left(\frac{W_{1}^{2}}{W_{1}^{2}}\right) \rightarrow \frac{6\left(\frac{5}{10}+1\right)}{S^{2}+275+1}$$





18.4) Find the values of L. and C. of a RLC circuit such that the circuit will be reasonant at 100 KHz and have a bandwidth of 1 KHZ

VS P & SOOT

mo=100 KHZ. 54 102

B=1KHZ

L= 1.59 AH

C,= 1.59 nF

Find L1) B= R -D L= R

4= 11cHz·21 = 1.59 mH

Find Ci) wo Fit TO C= Lwo

C, = 1,59 mH (100/416-2111)2 = 1.59 nF