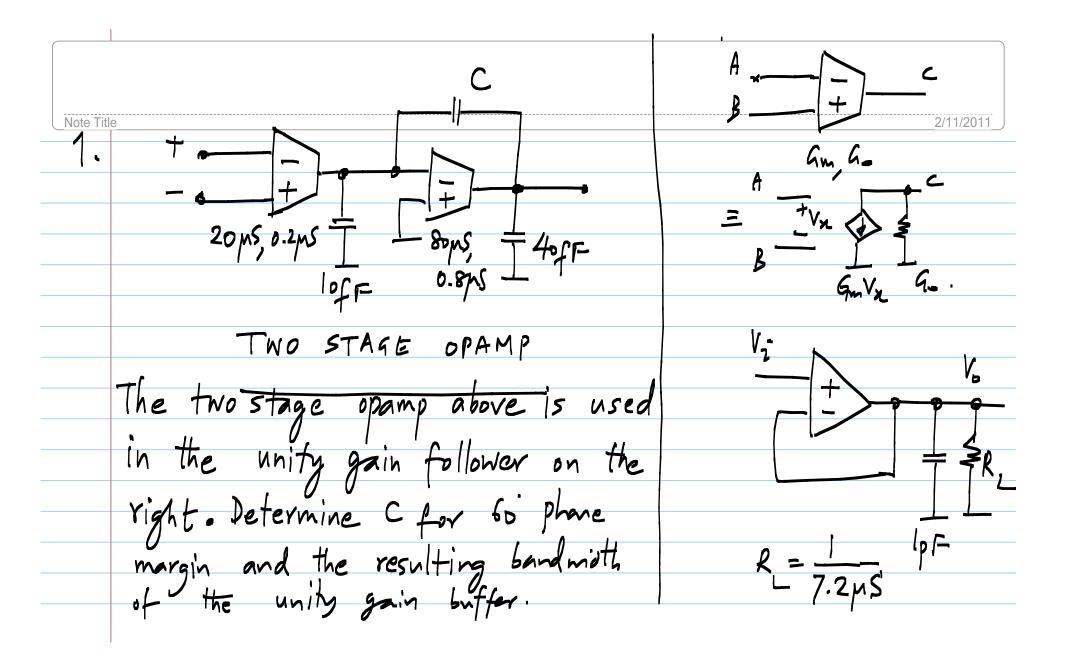
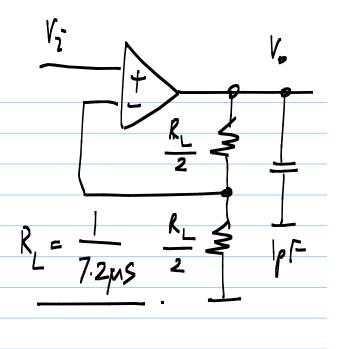
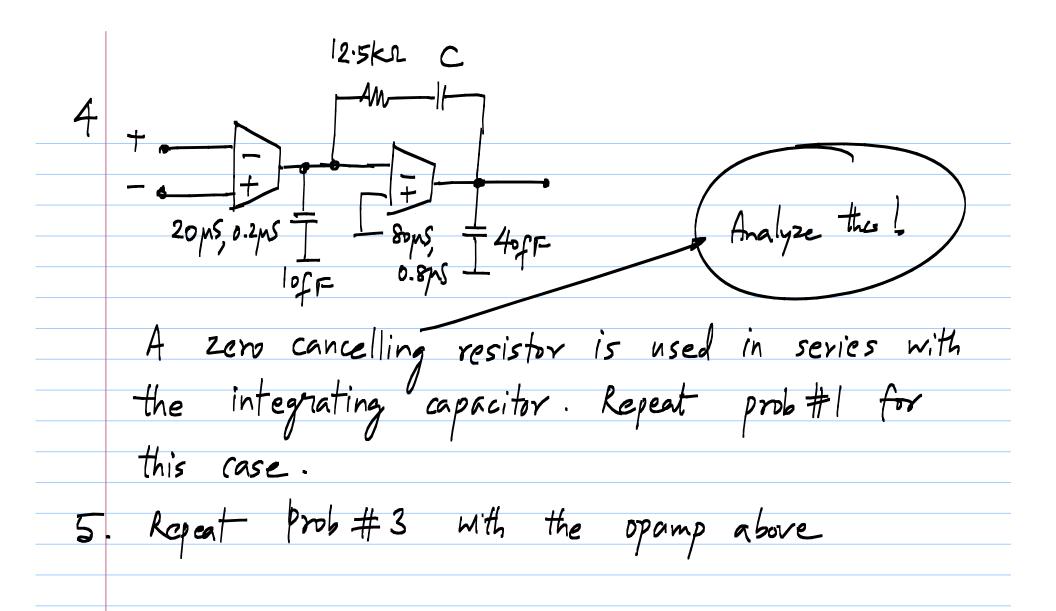
	EE3002: Analog circuits	
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2. The two stage opamp above is used (as is) in the 2x amplifier on the right. What is the phase margin of the loop and the closed loop bandwidth of the amplifier?



3. If you are allowed to change "c" in the openp in the above problem, what value would you use to get 60 phane margin? What is the bandwidth of the 2x amplifier in this case?



6. In each of the above cases, you would have used some approximations. In each case, with the value of "c" that you used, determine the exact closed loop transfer function and determine the closed loop poles and zens. You can use a numerical solver to determine these if necessary.