

Spring 2024 – ECE 3020

QUIZ 3b

02/19/2024

Name: _____ **Time: 10min**

1. For the non-inverting amplifier circuit below,
 - a. If the op-amp is ideal, $R_1 = 1\text{k}\Omega$ and $R_2 = 10\text{k}\Omega$, find the closed loop gain (v_o/v_s). 6pts
 - b. Using your answer in a) as your nominal gain, what is your closed loop bandwidth if the op-amp has a dc gain of 1000 V/V, and bandwidth of 10kHz. 4pts

