CSE3215

Quiz 3 (Set B2)

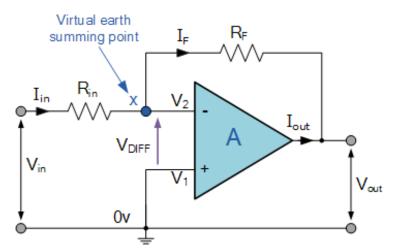
Time: 20 minutes

Marks: 10

1)

a) If your system is 3.3V and your 10-bit ADC is reporting 512, what is the analog voltage measured? (2)

b) (3)



For the above figure, let R_F = 350 k Ω , R_{in} = 20 k Ω and V_{in} = -0.75V. Calculate I, the voltage across R_F and V_o .

2)

- a) A DAC is showing 4.2V output for the input code 101010. Calculate the LSB and Reference voltage if it operates within 2V to 12V. (2)
- b) What is Virtual Ground of an Inverting Amplifier? Explain with proof. (3)