CSE 3215

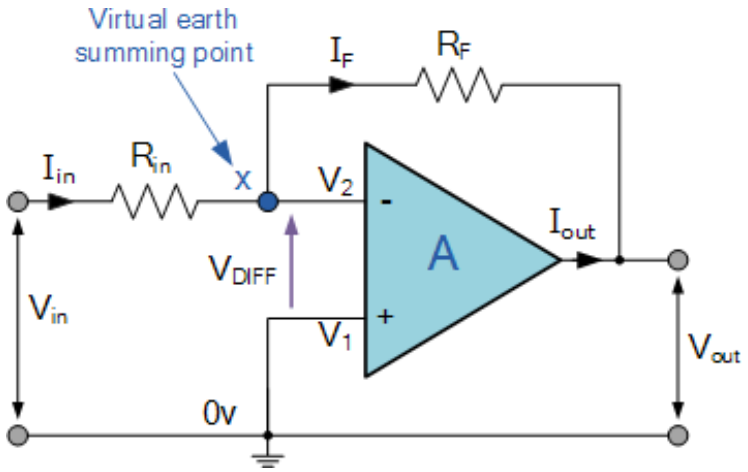
Quiz 3 (Set B1)

Time: 20 minutes

Marks: 10

a) Derive the formula $-Vout = \frac{Rf}{Rin}(V1 + V2 + V3 \ldots . . etc)$ of the Summing Amplifier. (2)

b) (3)



For the above figure, let R_F = 100 kΩ, R_{in} = 10 kΩ and V_{in} = 1V. Calculate I, V_o and A_v.

2)

a) A DAC is showing 550V output for the input code 010101. Calculate the LSB and Reference voltage if it operates within 200V to 800V. (2)

b) What is an Operational Amplifier? Explain with circuit diagram. (3)