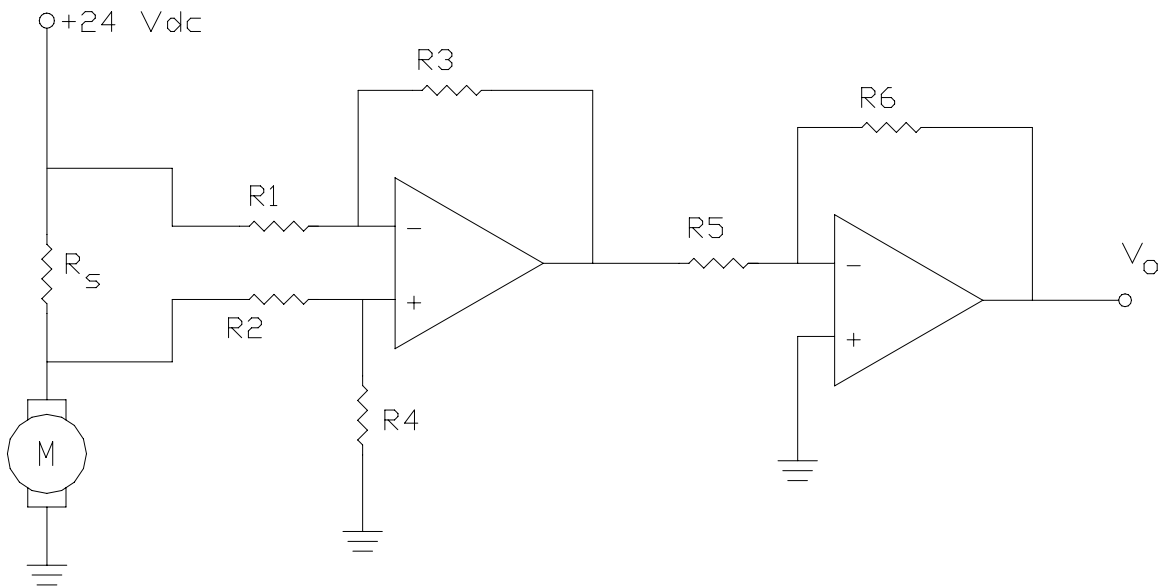ET 438B
Differential Amplifier Application

For the circuit below has the following values

R_s = 0.12 Ω   R1 = R2 = 100 kΩ   R3 = R4 = 470 kΩ
R5 = 10 kΩ   R6 = 82 kΩ
V_0 = -7.875 Vdc

The circuit is designed to sense the load current of the dc motor/generator M by

measuring the voltage drop across the shunt resistor R_s.   Find the magnitude and
direction of the current supplied to motor/generator.