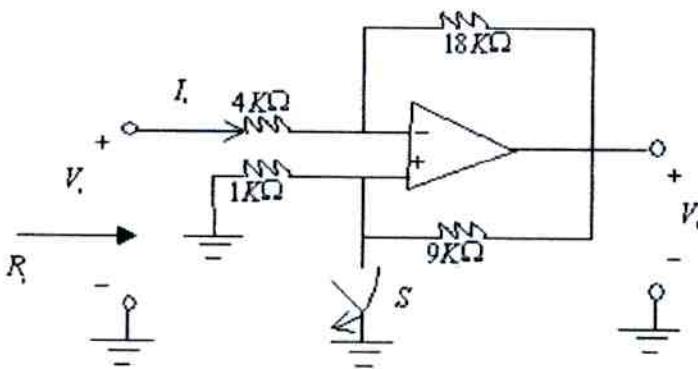


In the operational amplifier circuit shown in the figure, the switch s is closed first. Calculate the voltage gain  $V_o/V_i$ , and the input impedance  $R_i = V_i/I_i$ .



a.

$$V_o/V_i = -4.5, \quad R_i = 4 \text{ Kohms}$$

b.

$$V_o/V_i = -14.5, \quad R_i = 8 \text{ Kohms}$$

c.

$$V_o/V_i = 24.5, \quad R_i = 28 \text{ Kohms}$$

d.

$$V_o/V_i = 44.5, \quad R_i = 14 \text{ Kohms}$$