ACADEMIC YEAR 2020-2021
SEMESTER 2

EE3019 INTEGRATED ELECTRONICS

TUTORIAL 7

_____

1. For the circuit shown in Figure **7**.1, use the feedback method to find the voltage gain V_o/V_s, the input resistance R_{in} and the output resistance R_{out}. Given that the op-amp has open-loop gain $\mu = 10^4$ V/V, $R_{id} = 100$ kΩ, and $r_o = 1$ kΩ.
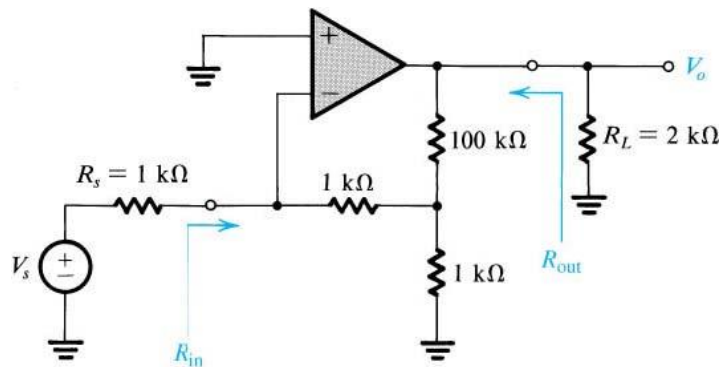

Figure **7**.1

[Answer: -192V/V, 29.9Ω, 29.5Ω]