CMOS OpAmps

INEL4202
Three-stage CMOS opamp
$V_{G2}$ es un voltaje DC.
For the following CMOS amplifier, where $V_{b1}$ and $V_{b2}$ are DC voltages for proper operation of the circuit:

a) identify the negative and the positive terminals
b) find the expression for the differential gain $A_{id} = \frac{V_{out}}{V_{id}}$
c) find the expression for the differential input resistance $R_{ind}$
d) find the expression for the output resistance $R_{out}$

Assume: $I_{ss}$ = ideal current source