Common mode gain

\[ V_{in} \rightarrow V_{o} \]

\[ R_s = \frac{R_o}{9m \cdot R_0} \]

\[ R_0 = \frac{V_{in}}{V_{o}} \]

\[ R_s \ll R_0 \]

\[ V_{o} \approx \left( \frac{-9m \cdot R_0}{1 + 9m \cdot R_0} \right) V_{in} \]

Symmetrical conditioner. Could be connected from base to base.

If drain is small, 1st stage.

Final drain can flow.

(40/24on 16.5p W3L2)
\[ R_0 = \frac{V_0}{I_0} = 0 \]

Wrong calculation, right answer.

\[ R_0 = 6 \Omega \]

\[ V = 3 \text{ V} \]

\[ \text{Common node: } V \]

\[ A_2 = -\frac{1}{2} R = +9 \Omega \]

\[ \text{Virtual short: } \frac{1}{2}(0.018+0.028) \]

\[ G = 0.03 \]