

# EE204

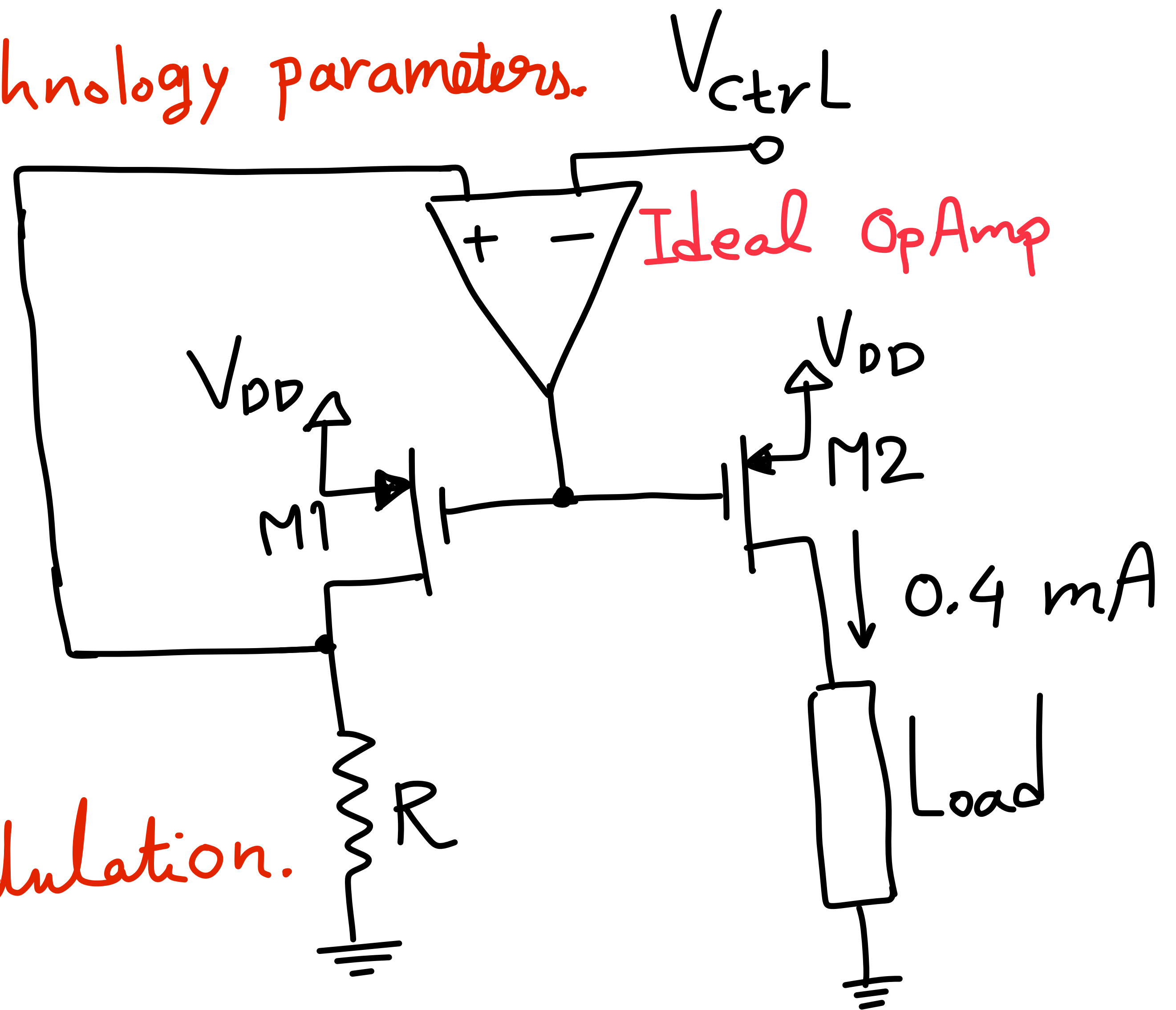
## Class Quiz 3

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M1 and M2 have same technology parameters.  $V_{ctrl}$

$$\begin{cases} \left(\frac{W}{L}\right)_{M2} = 2 \times \left(\frac{W}{L}\right)_{M1} \\ V_{DD} = 3V \\ V_{SG_{M1}} = V_{SG_{M2}} = 0.6V \end{cases}$$

\* Ignore channel length modulation.



choose/derive value of  $V_{ctrl}$  and R.