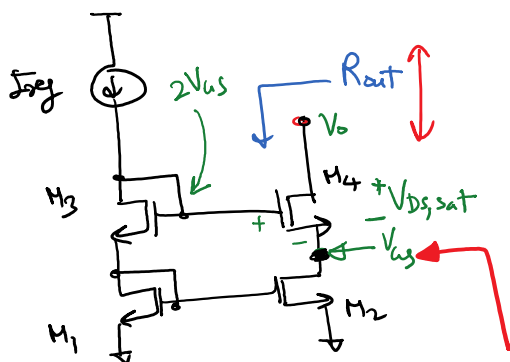


Tuesday, September 18, 2018 11:01 AM

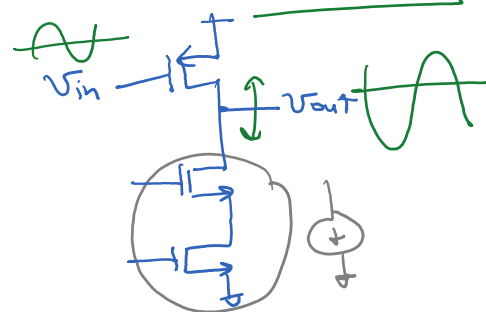
Tuesday, September 18, 2018 11:01 AM

$$V_{GS} = V_{THN} + V_{DS, sat}$$



$$V_o > V_{A0} + V_{DS,sat} = V_{A0} + 2V_{DS,sat}$$

voltage
headroom



V_b
 $= V_{gs} + V_{gs, sat}$

$$V_0 \geq 2V_{DS, \text{sat}}$$

Need to avoid wasting
extra 'V_{TH}' of swing.

