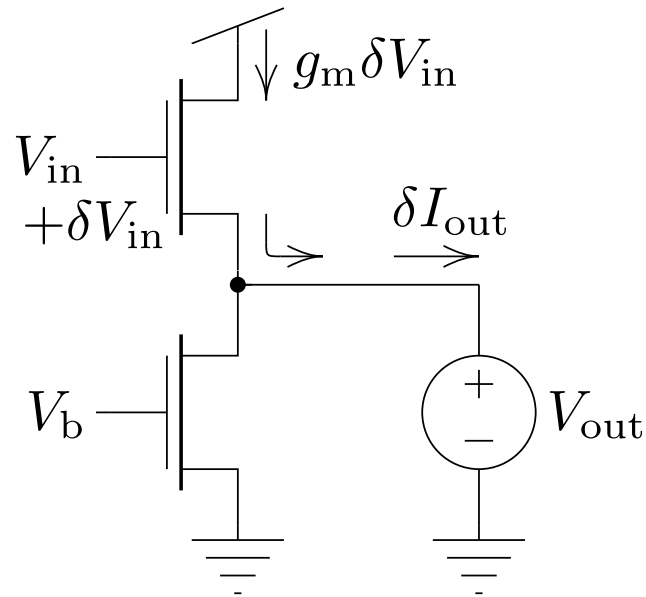
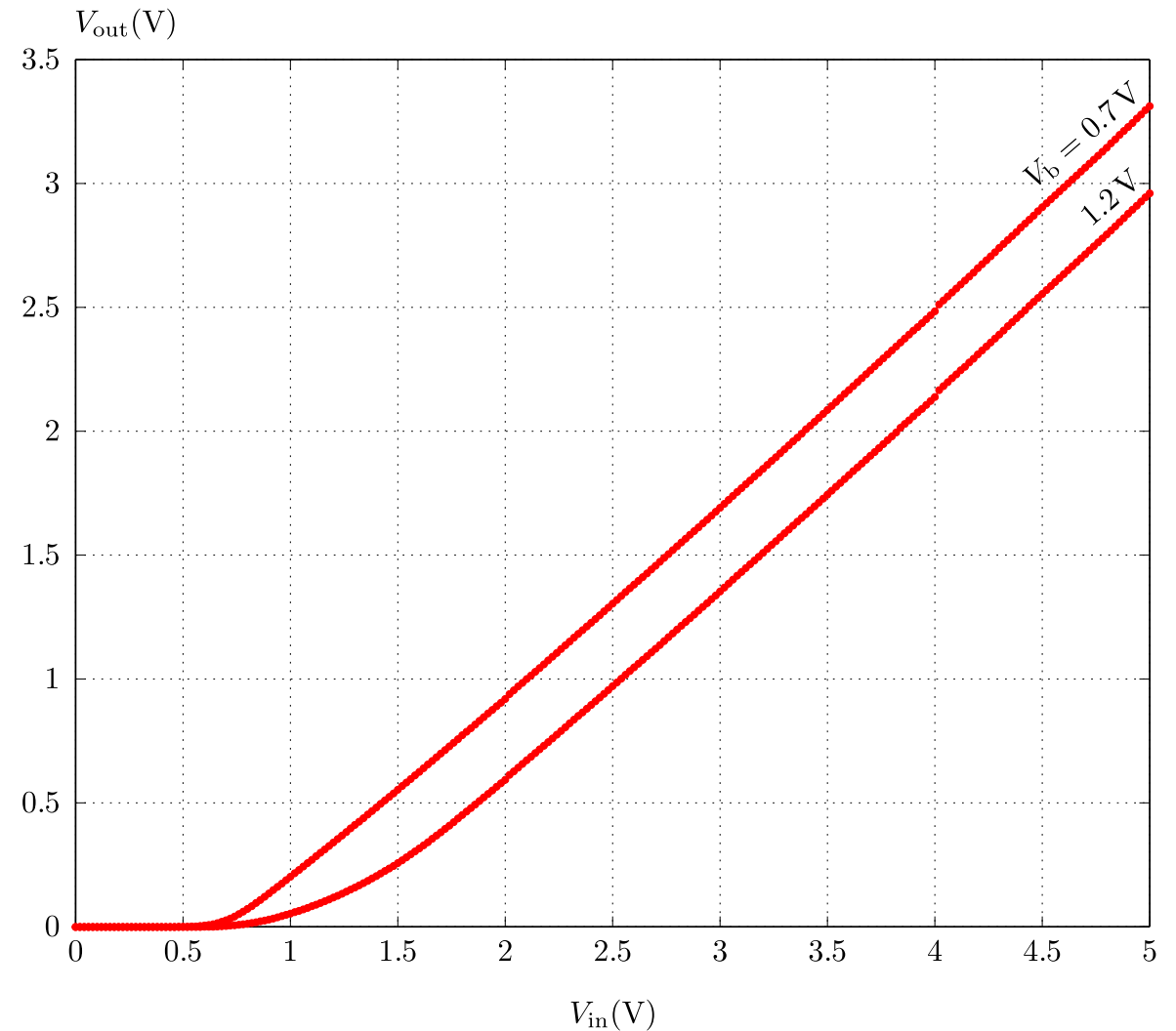


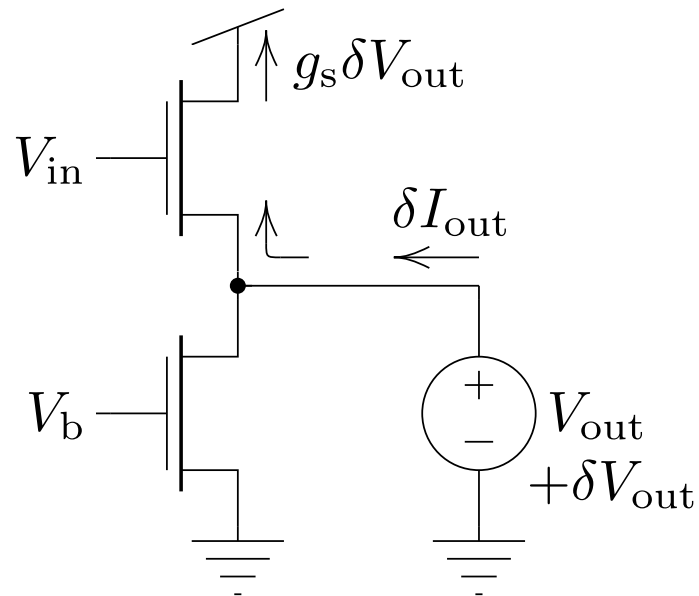
Node Fixing: Source Follower Voltage Gain



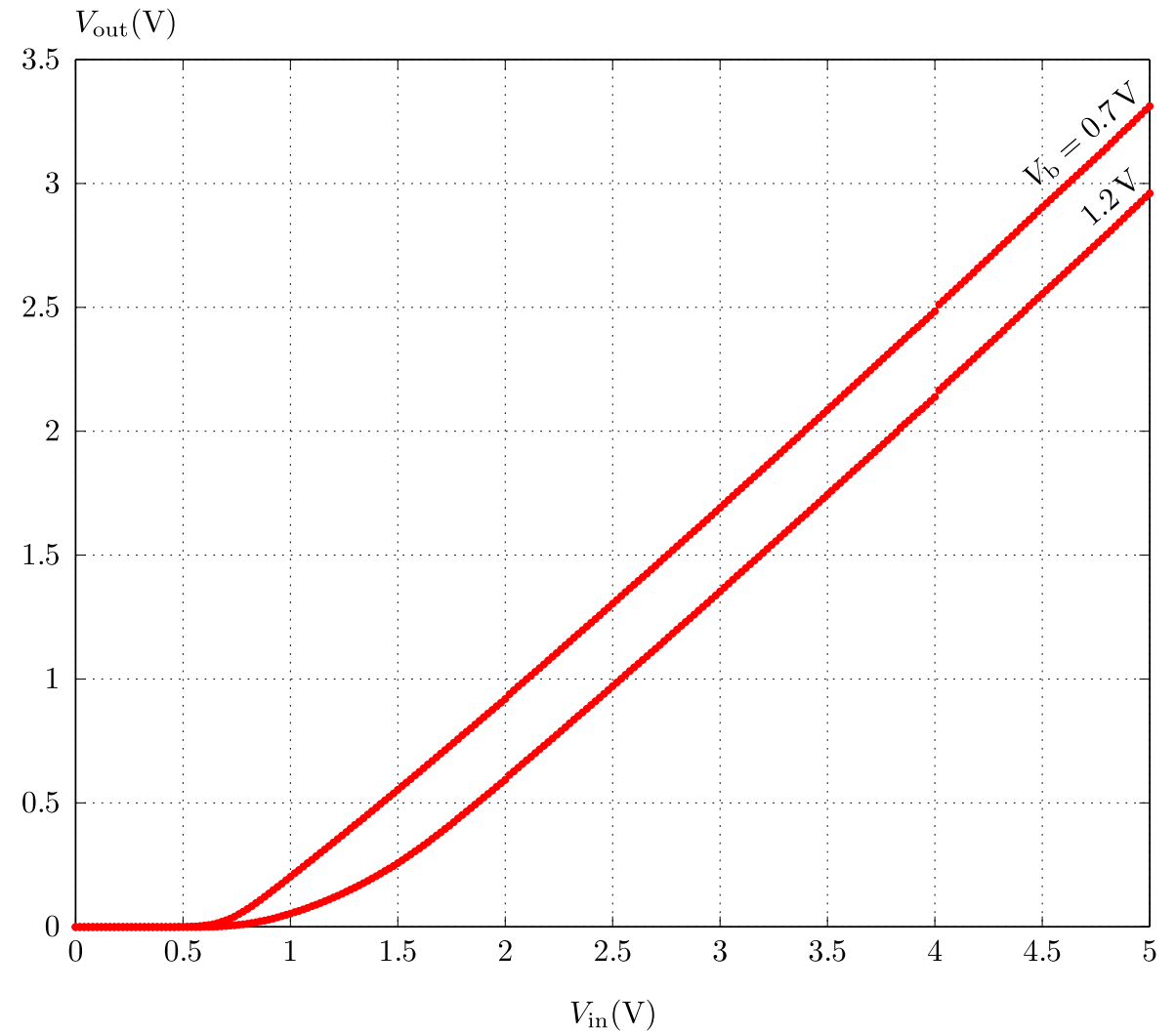
$$G_m = \frac{\delta I_{out}}{\delta V_{in}} = g_m$$



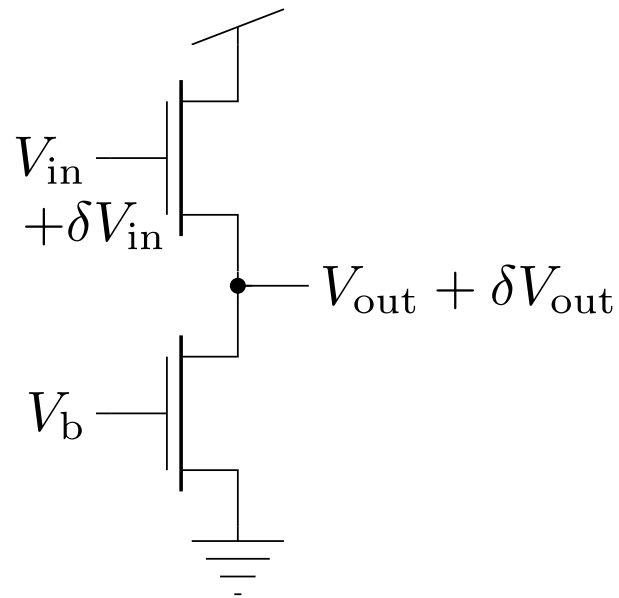
Node Fixing: Source Follower Voltage Gain



$$G_m = \frac{\delta I_{out}}{\delta V_{in}} = g_m \quad R_{out} = \frac{\delta V_{out}}{\delta I_{out}} = \frac{1}{g_s}$$

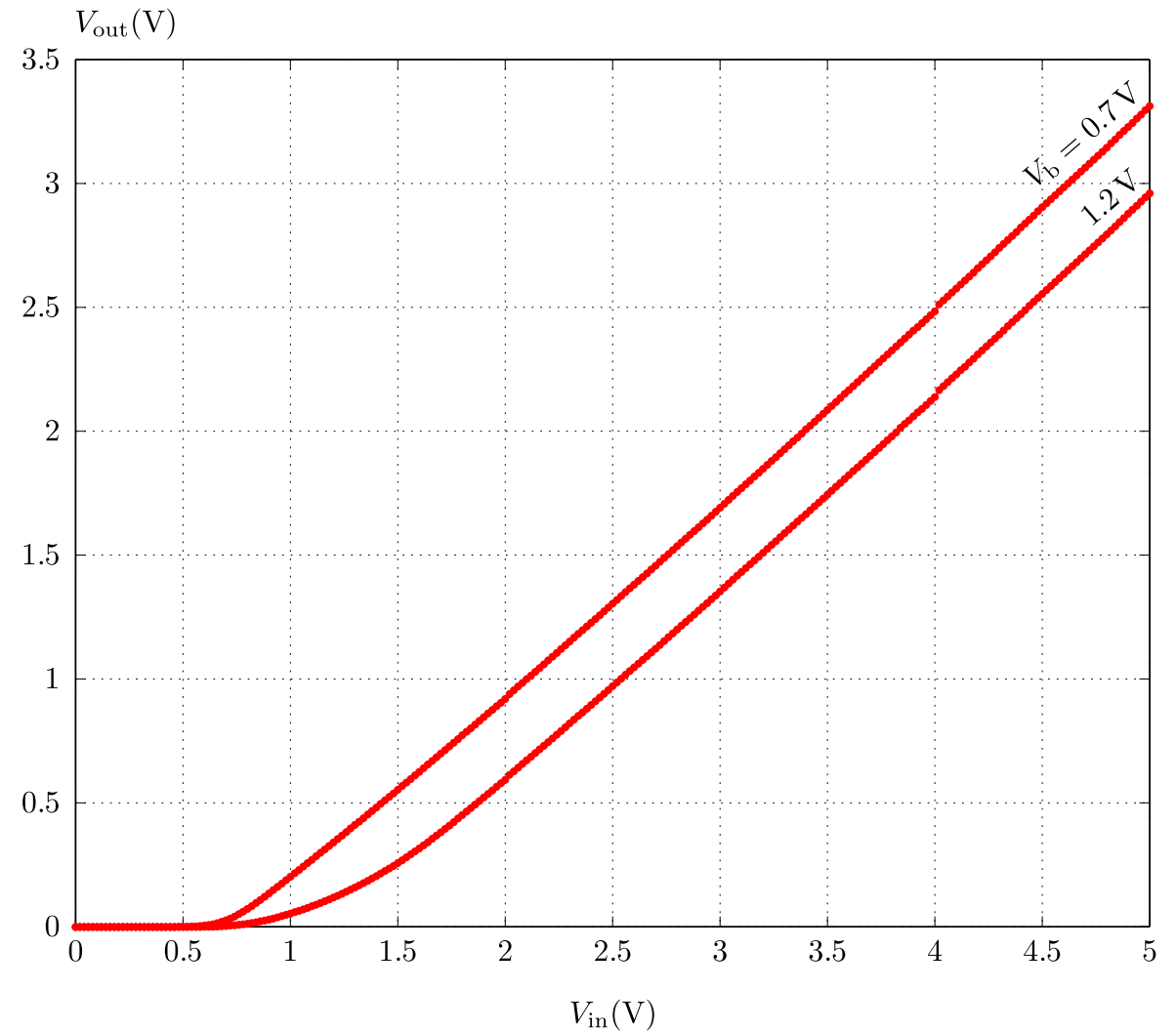


Node Fixing: Source Follower Voltage Gain

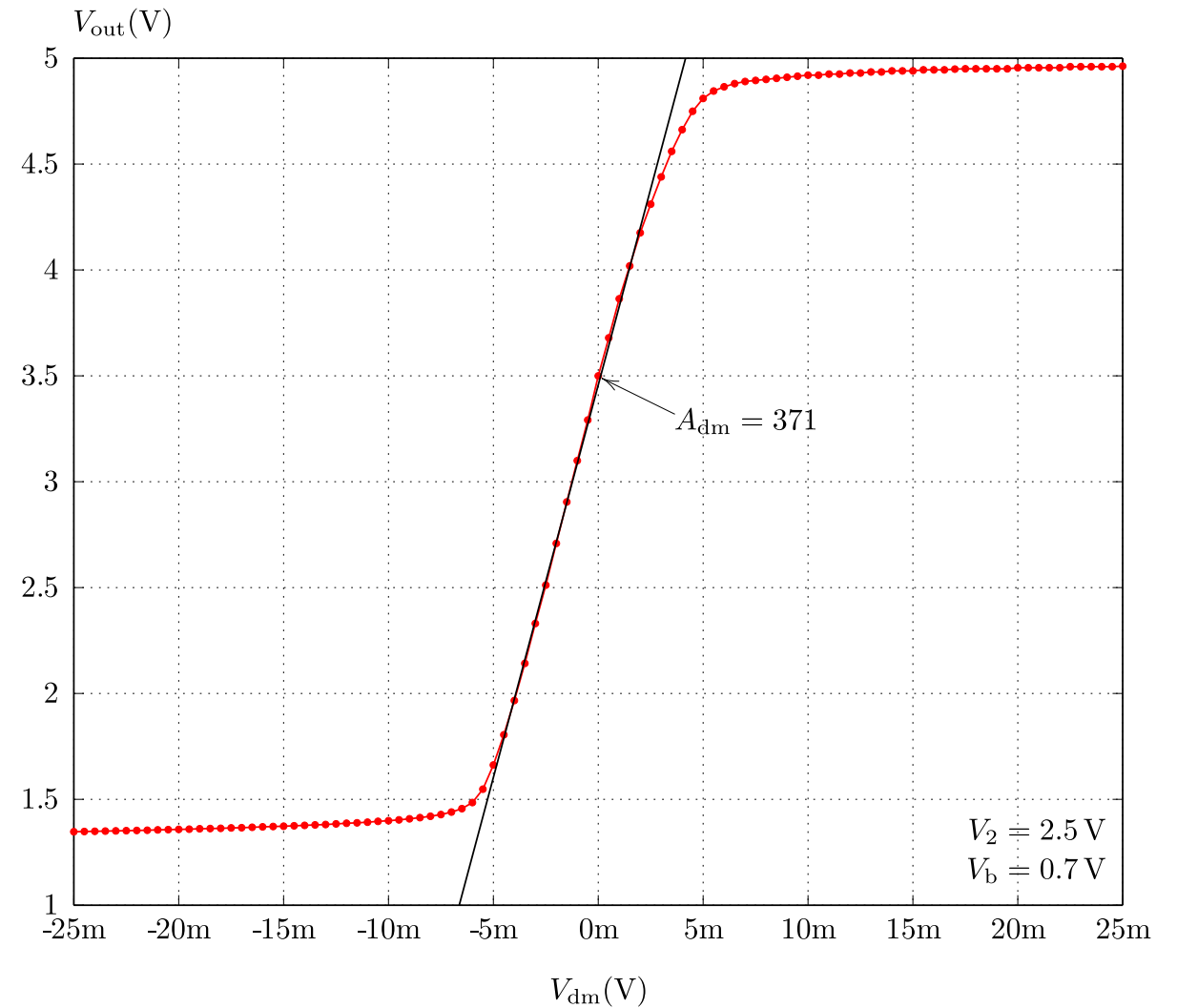
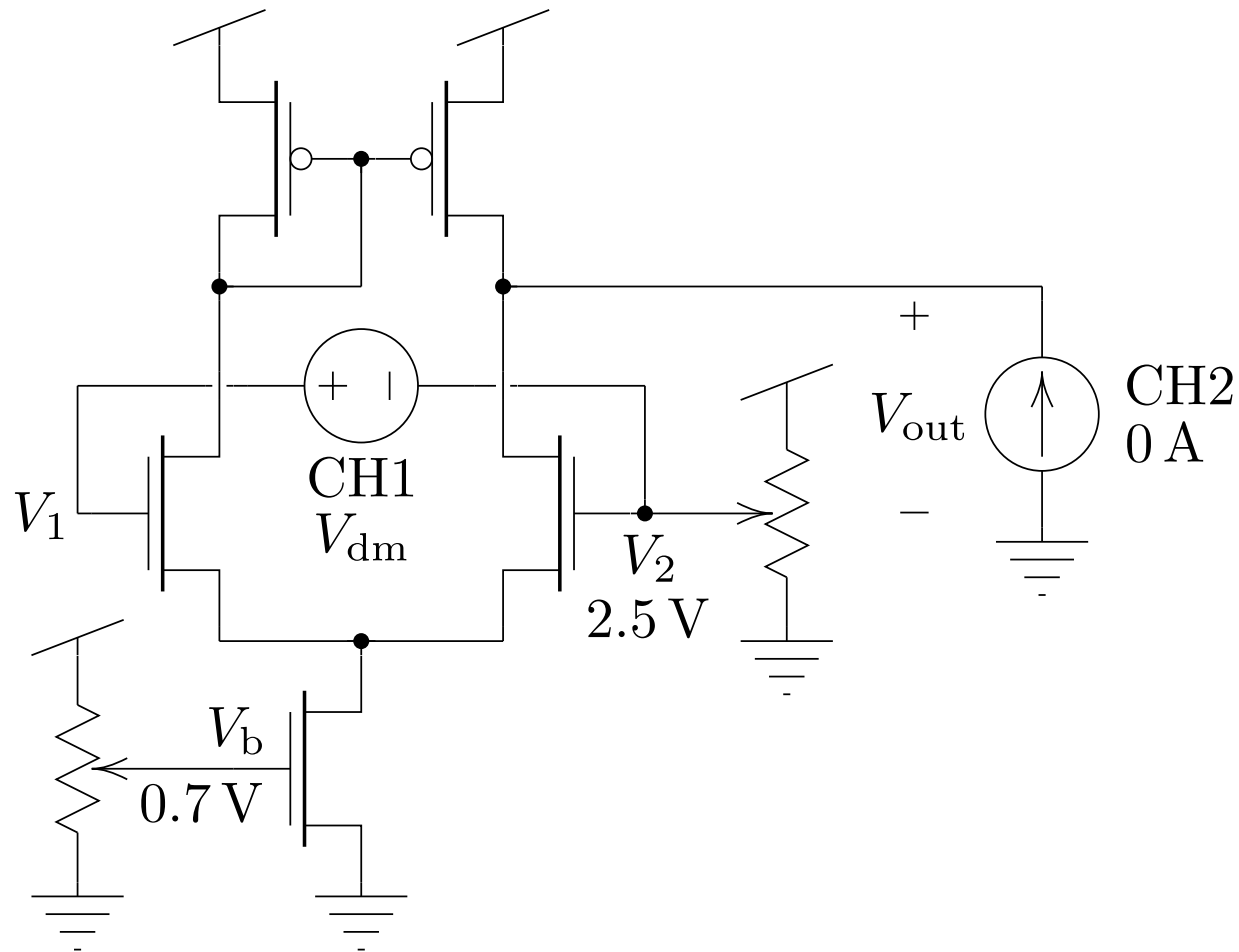


$$G_m = \frac{\delta I_{out}}{\delta V_{in}} = g_m \quad R_{out} = \frac{\delta V_{out}}{\delta I_{out}} = \frac{1}{g_s}$$

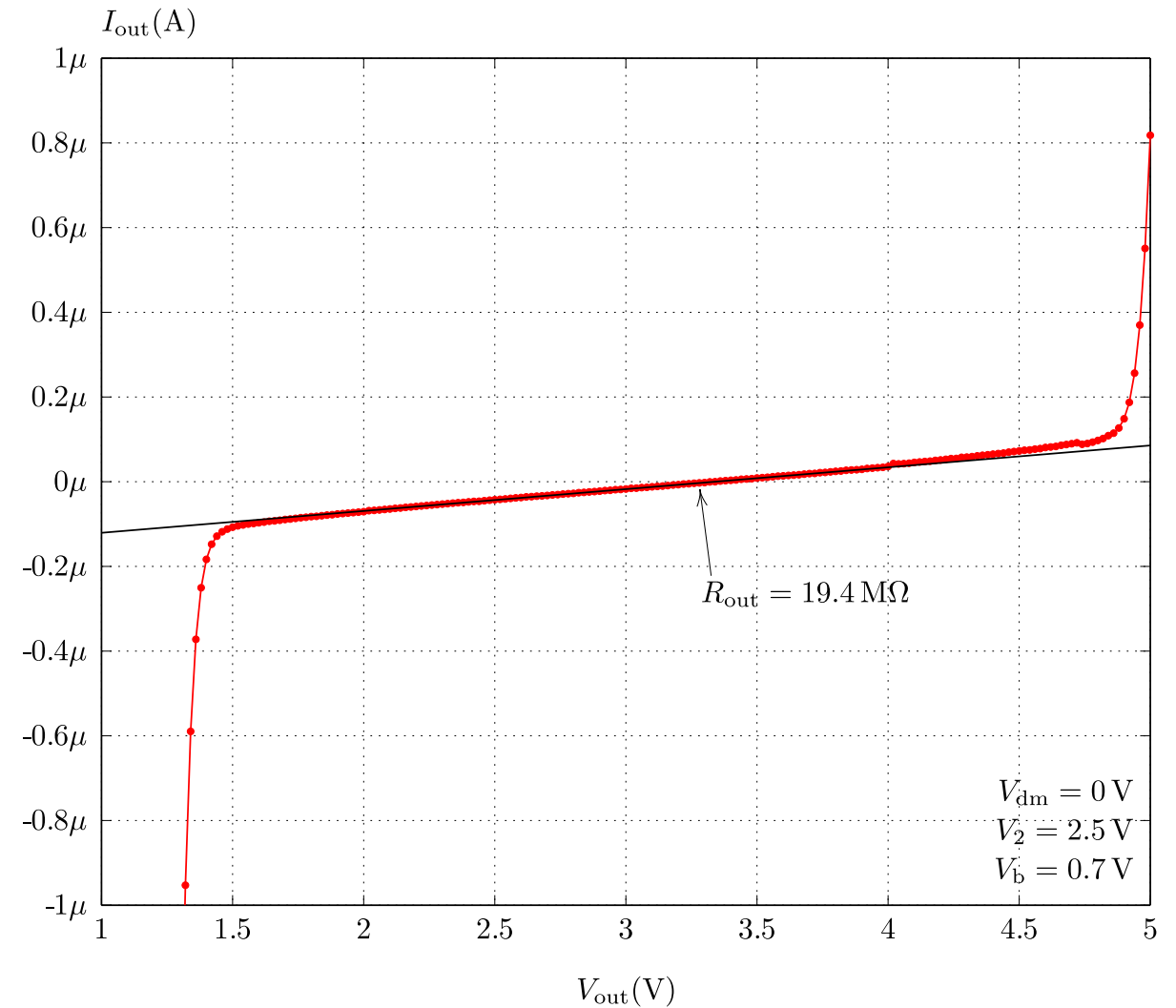
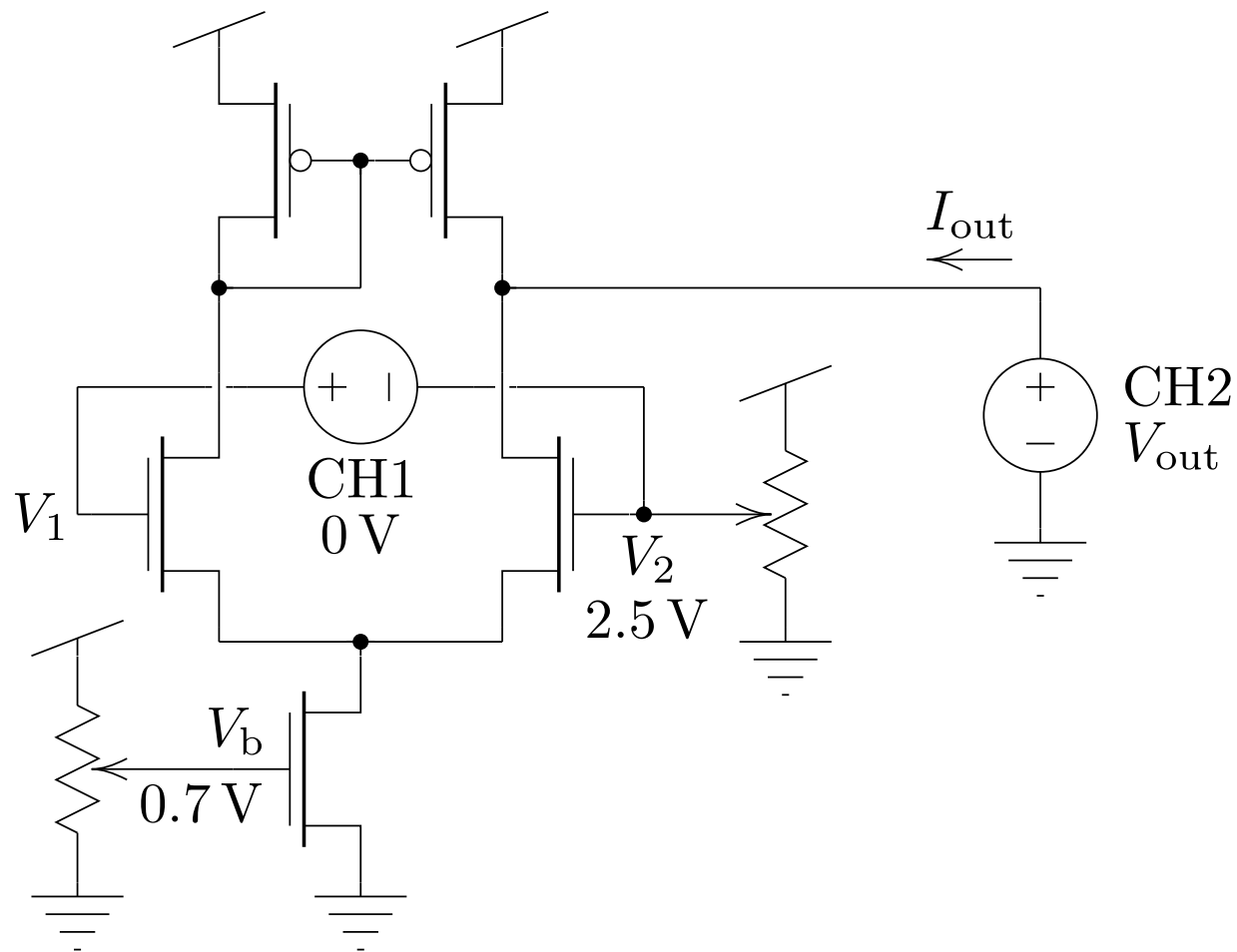
$$A_v = \frac{\delta V_{out}}{\delta V_{in}} = G_m R_{out} = \frac{g_m}{g_s} = \kappa$$



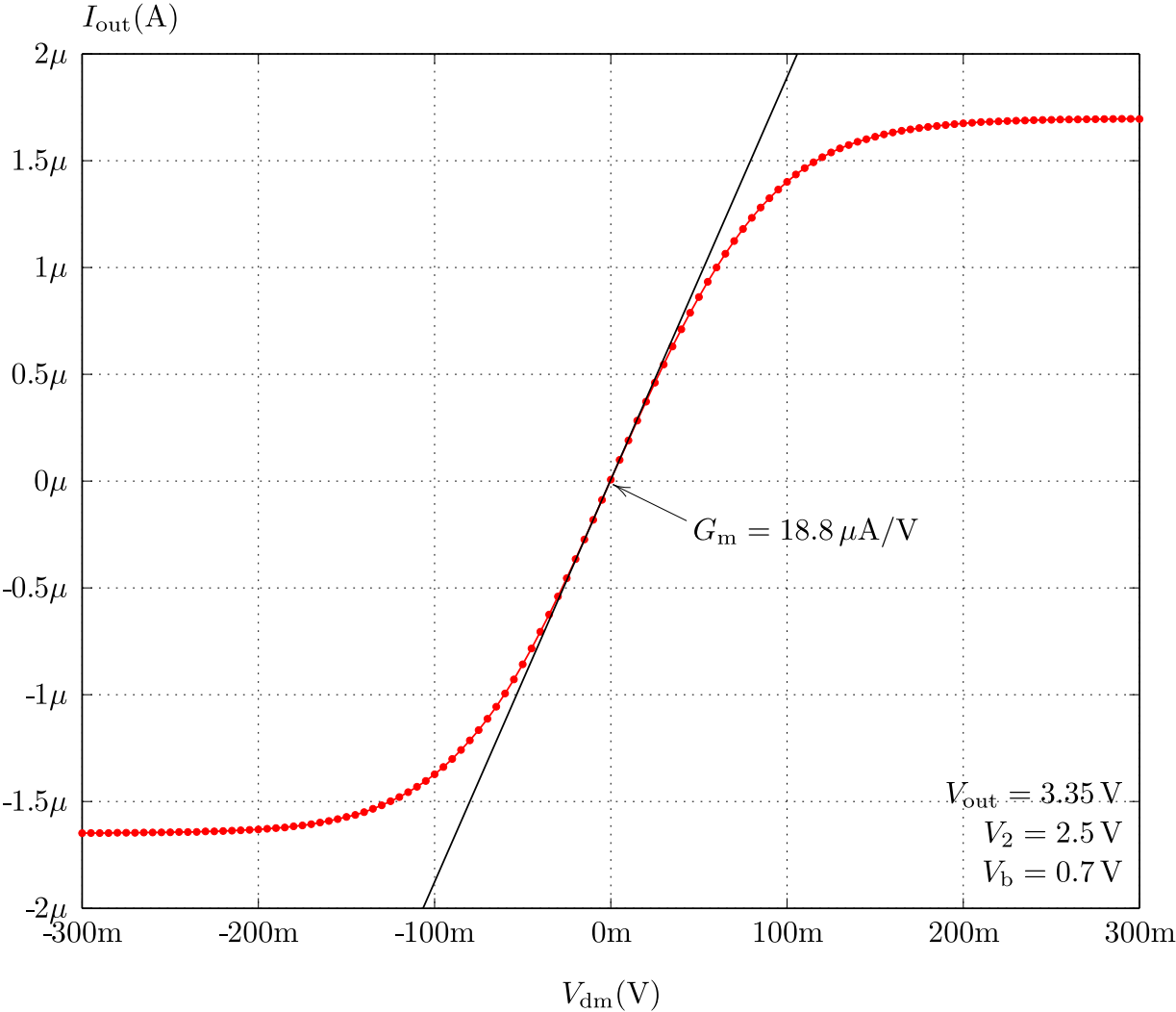
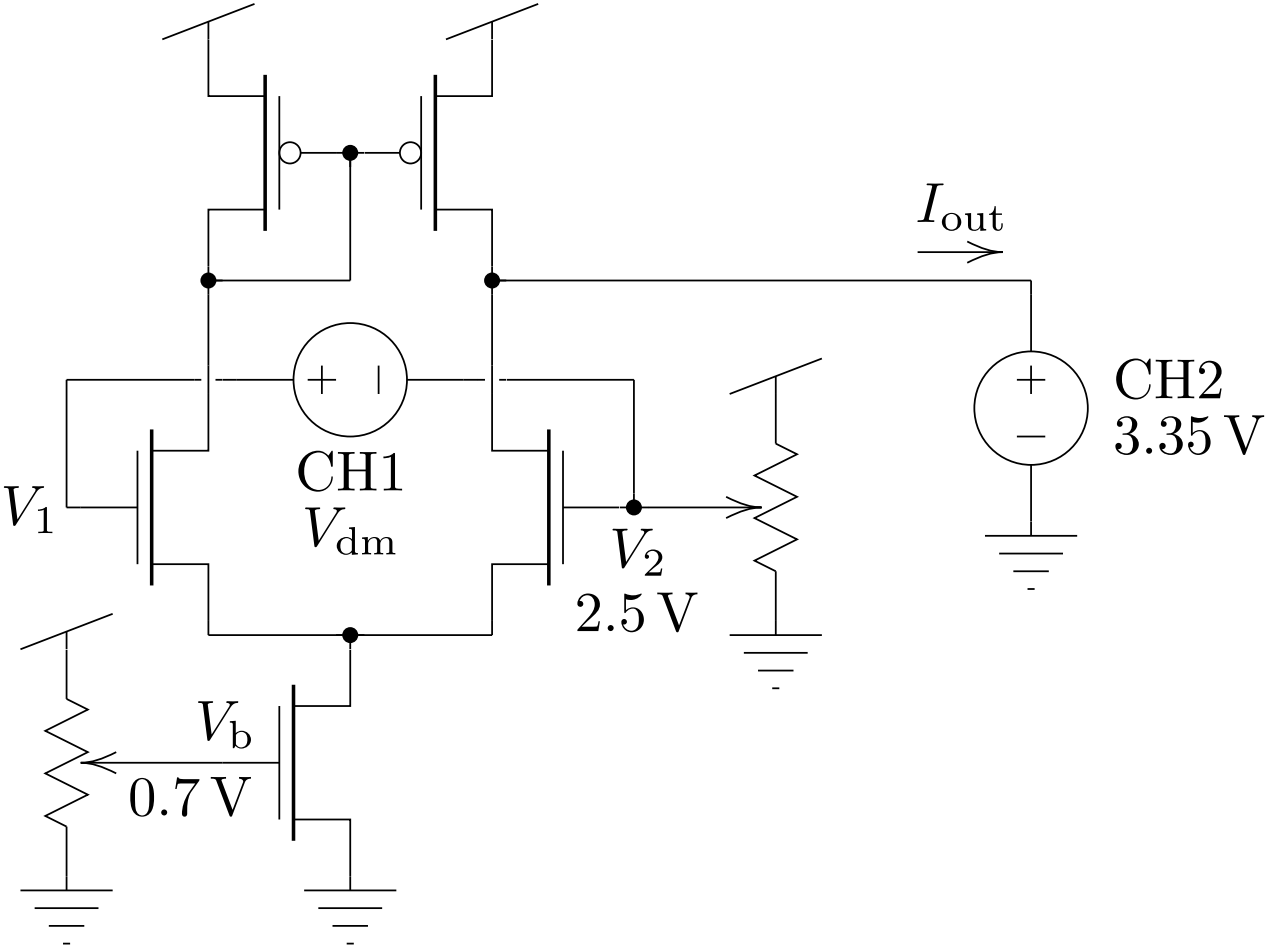
Differential Amplifier: Voltage Gain from VTC



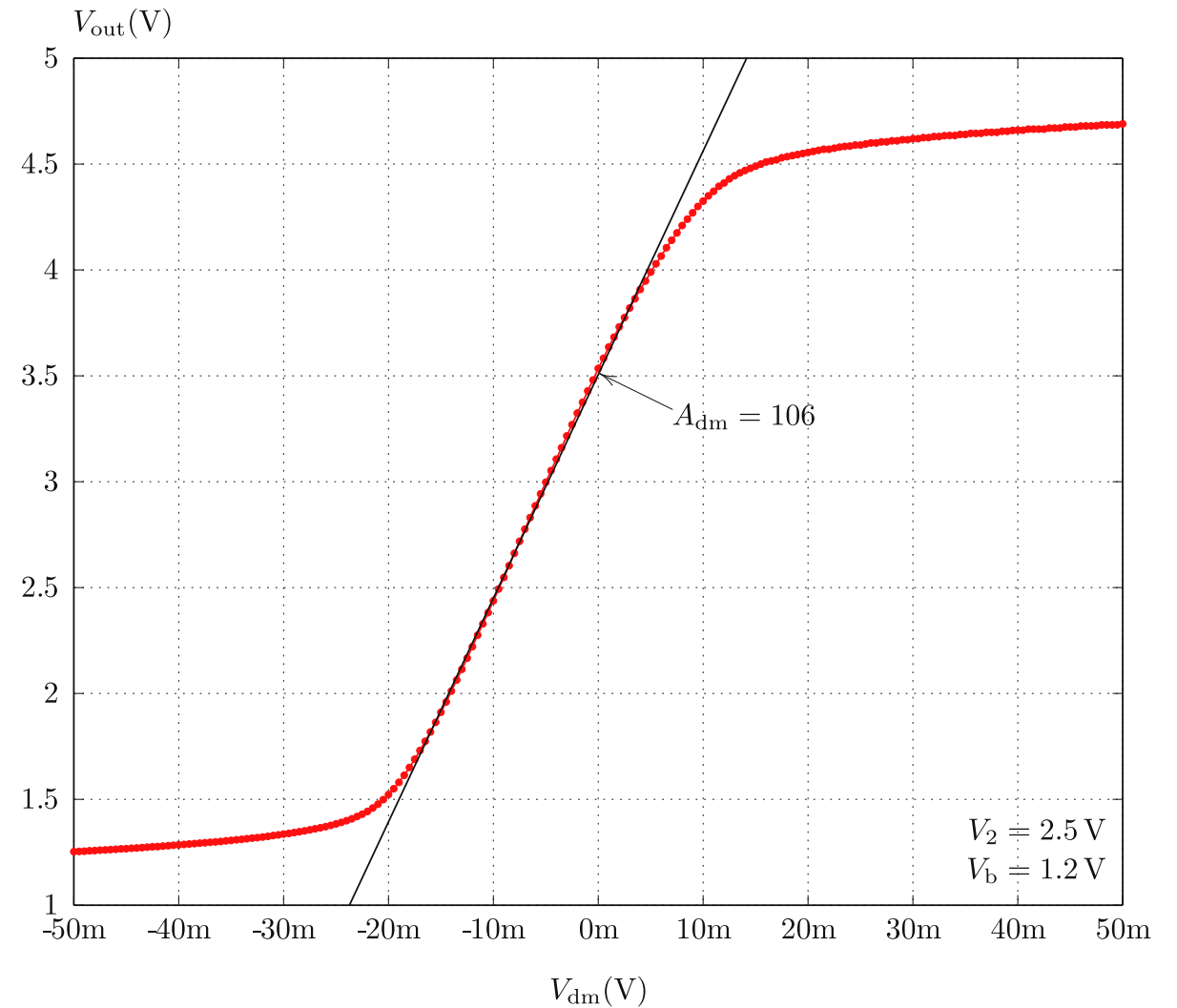
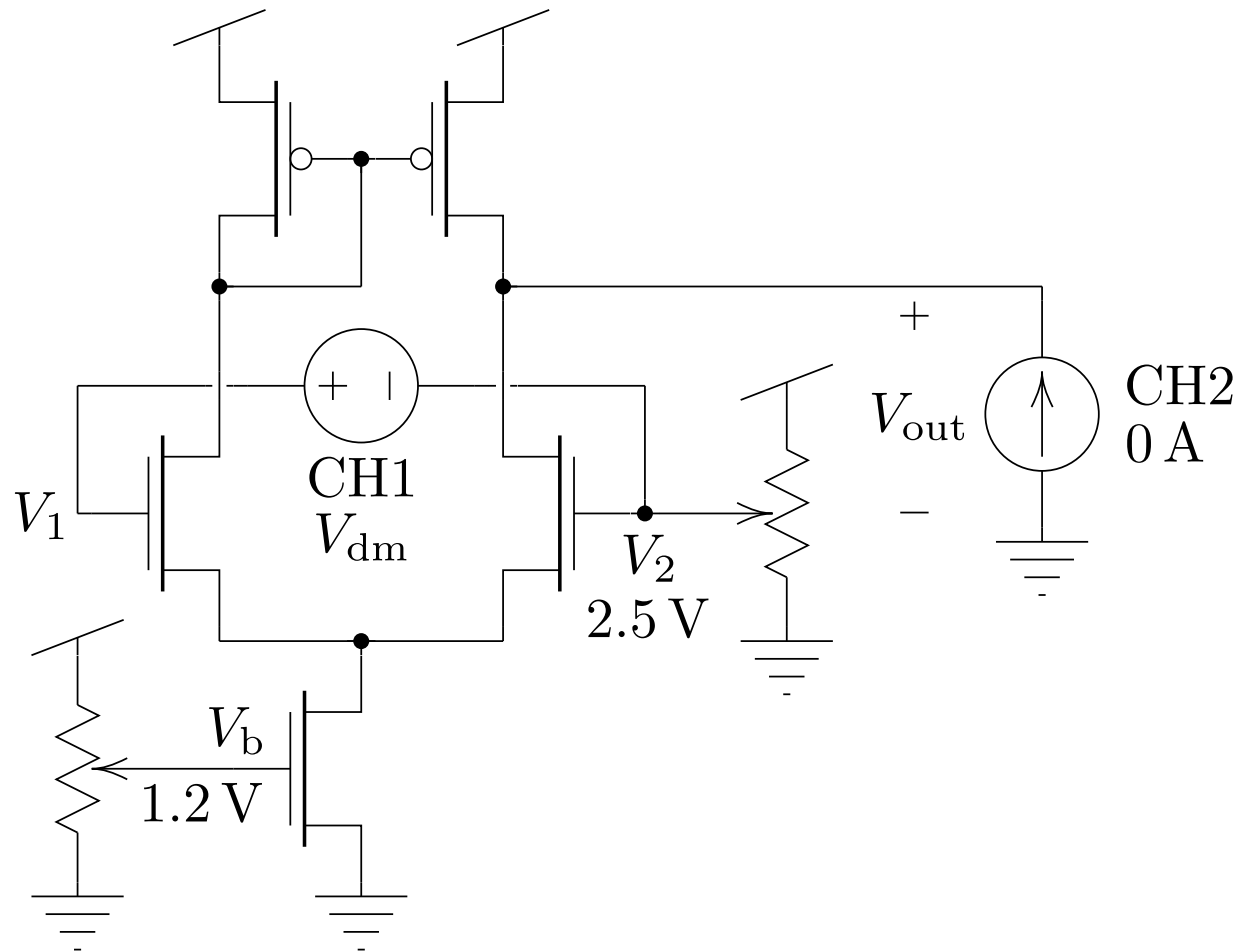
Differential Amplifier: Output Resistance



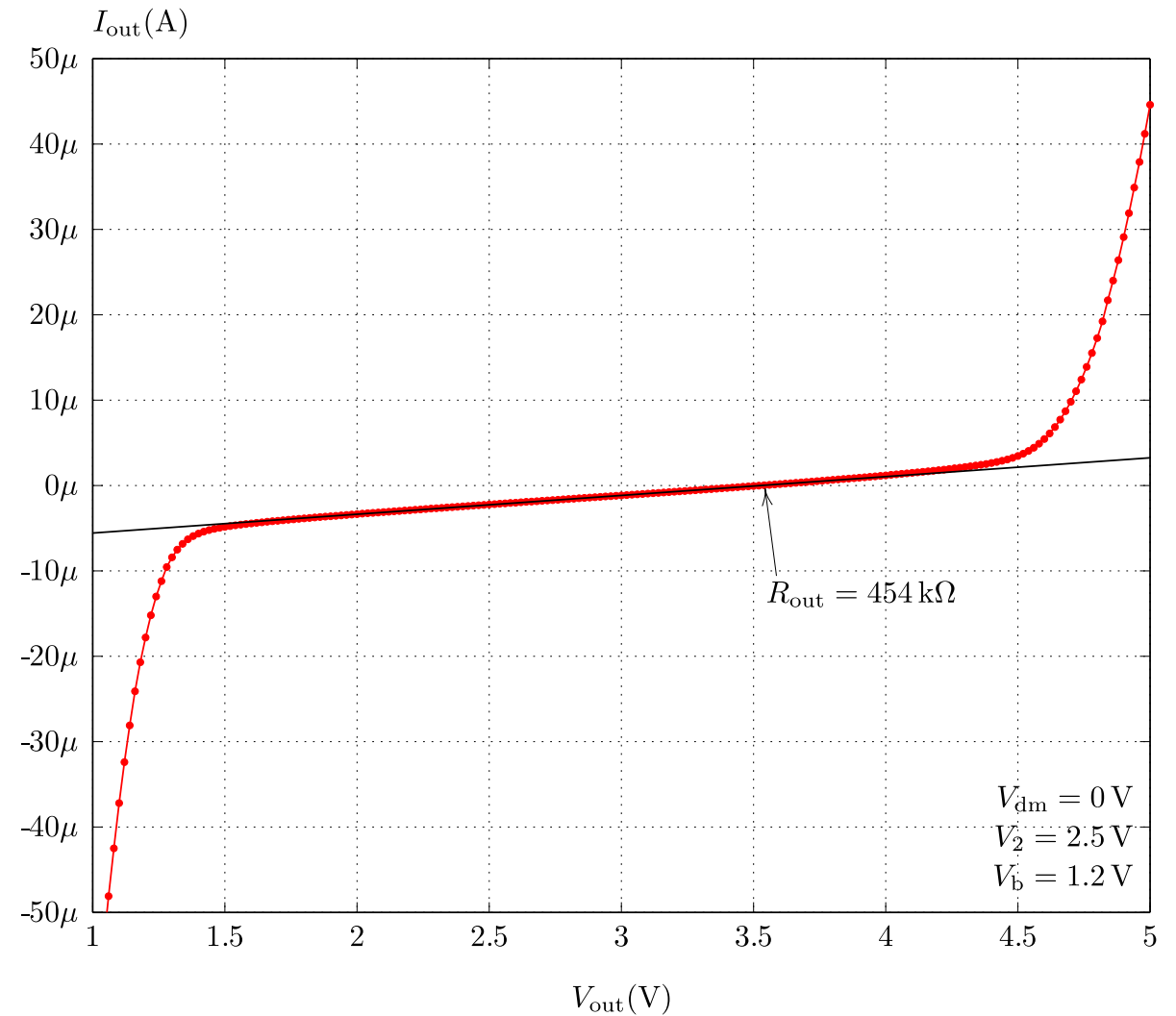
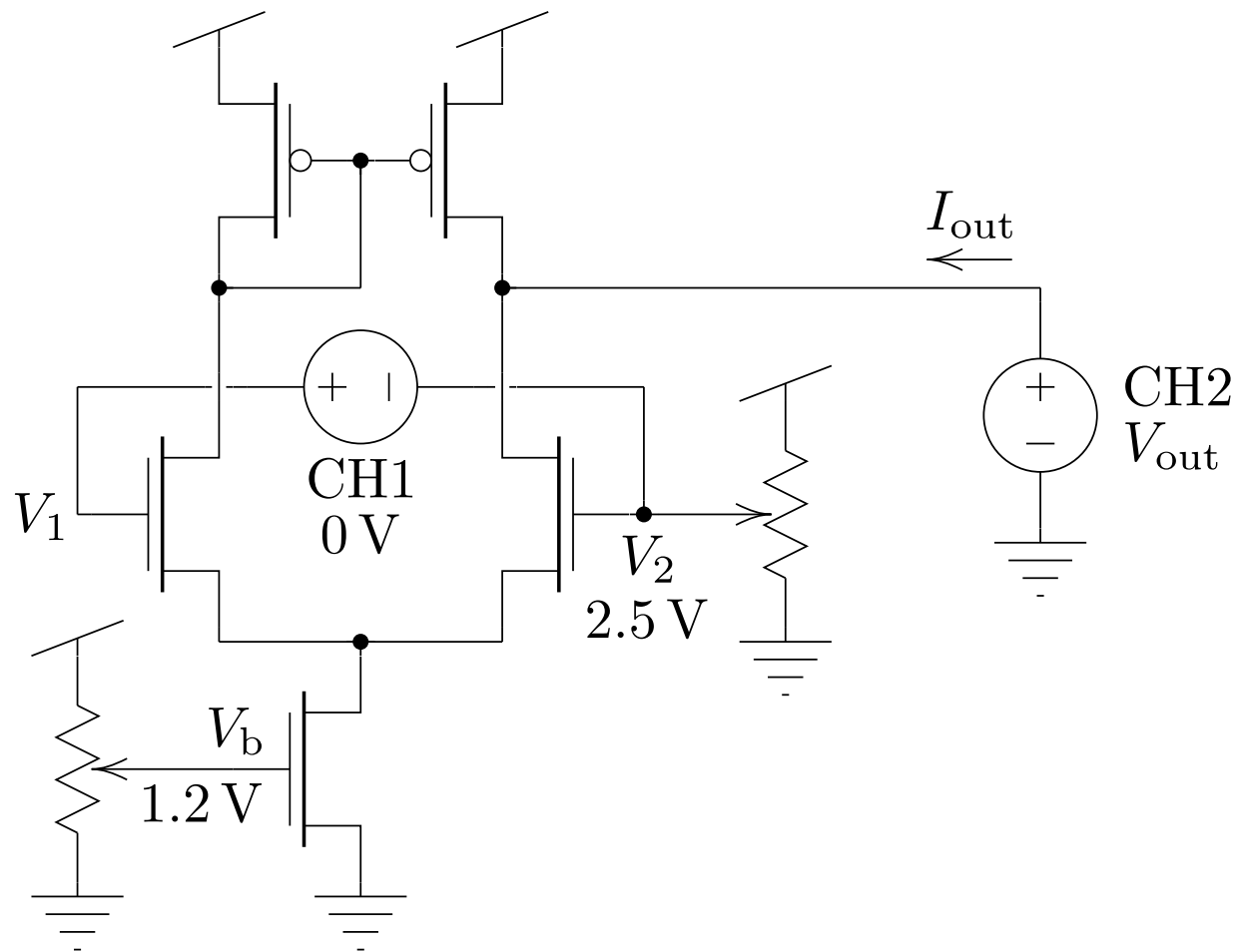
Differential Amplifier: Transconductance Gain



Differential Amplifier: Voltage Gain from VTC



Differential Amplifier: Output Resistance



Differential Amplifier: Transconductance Gain

