



$$V_{logS} = \frac{kT}{e} \ln \left( \frac{I_S}{120 \mu A + \frac{V_S}{10k}} \right)$$

$$V_{logR} = \frac{kT}{e} \ln \left( \frac{I_S}{120 \mu A} \right) \sim -0.6V$$

Study For Third order  
 Nonlinear Fun Gen  
 P Hodes 2/15/11