



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

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

$Q = MAT14$

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