$$Na\ Channel:\ T=22^{\circ}C$$
 $\phi=3.0^{(T-36.0)/10}$ $t_{m}=1.0/((lpha_{m}+eta_{m})\phi)$ $V'=V-(-50)$ $m_{0}=lpha_{m}/(lpha_{m}+eta_{m})$ $m_{0}=rac{lpha_{m}/(lpha_{m}+eta_{m})}{e^{(13.0-V')/4.0-1.0}}$ $t_{h}=1.0/((lpha_{h}+eta_{h})\phi)$ $h_{0}=lpha_{h}/(lpha_{h}+eta_{h})$ $V'=V-(-50)$ $lpha_{m}=rac{0.28(V'-40.0)}{e^{(V-40.0)/5.0}-1.0}$ $lpha_{h}=rac{0.28(V'-40.0)}{e^{(40.0-V')/5.0}+1.0}$ $rac{dm}{dt}=-rac{1}{t_{m}}(m-m_{0})$ $dm=0.128e^{(17.0-V')/18.0}$ $dm=0.128e^{(17.0-V')/18.0}$ $dm=0.128e^{(17.0-V')/5.0+1.0}$ $dm=0.128e$

$$g_L = 0.15 \ \mu S$$
 $g_{Na} = 100 \ \mu S$ $g_K = 10 \ \mu S$ $E_L = -55 \ mV$ $E_{Na} = 50 \ mV$ $E_K = -95 \ mV$