$$\nu_{Na} = 115\text{mV}, \quad \nu_K = -12\text{mV}, \quad \nu_{Na} = 10.6\text{mV}, \quad C = 1\mu\text{Farad}/\text{cm}^2,$$

where "Ω" is one Ohm, the unit of resistance.

Non-dimensionalise with $v = \nu/\nu_{Na}$ and $\tau = t/[5\text{ms}]$, as $\tau_n(\nu) \sim O(5\text{ms})$, and we have

$$\epsilon\frac{dv}{d\tau} = I^*_{ext} - g(v,n) \overset{def}{=} I^*_{ext} - \left[m^3_\infty(v)(0.85-n)(v-1) + \gamma_K n^4(v+v_K) + \gamma_L(v-v_L)\right]$$

$$\frac{dn}{d\tau} = k(v,n) \overset{def}{=} \frac{1}{\tau^*_n(v)}\left[n_\infty(v)-n\right], \tag{21}$$

with

$$\epsilon = \frac{C}{G_{Na}[5\text{ms}]} = 2\times 10^{-3}, \quad \gamma_K = \frac{G_K}{G_{Na}} \sim 0.3, \quad \gamma_L = \frac{G_L}{G_{Na}} \sim 3\times 10^{-3},$$

$$I^*_{ext} = \frac{I_{ext}}{G_{Na}\nu_{Na}}, \quad v_K = -\frac{\nu_K}{\nu_{Na}} \sim 0.1, \quad v_L = -\frac{\nu_L}{\nu_{Na}} \sim 0.1, \quad \tau^*_n(v) = \tau_n(\nu)/[5\text{ms}] \sim O(1).$$

We can now sketch the nullclines, and noting the different timescales of the membrane potential response to the gating variable response (as $\epsilon \ll 1$) we can consider the phase plane trajectories in terms of fast and slow dynamics.
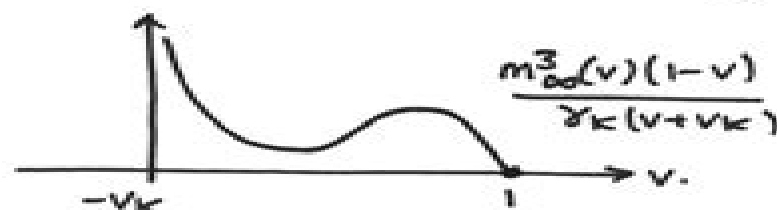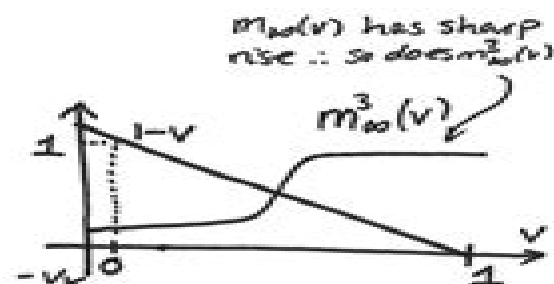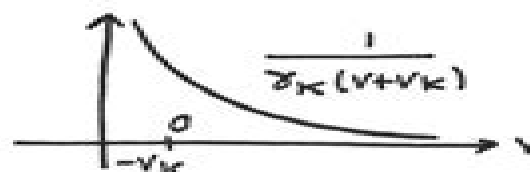
Plotting nullclines. $I^*_{ext} = 0$.

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H. Melvin Lieberstein

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