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NEUR 603 Assignment 1

Figure 1 illustrates the following (from top to bottom): (1) the inactivation and activation functions used in the model; (2) the time course of the voltage, in mV, provided in the handout; (3) the activation expressed as a function of time (note that the activation and inactivation are functions of voltage as well); (4) the inactivation expressed as a function of time; (5) the model conductance; and (6) the current, with dashed lines representing the measured current provided in the handout, and solid lines representing the time course of the current calculated by the model. Parameters used in the model are shown in the top-right corner of Figure 1.

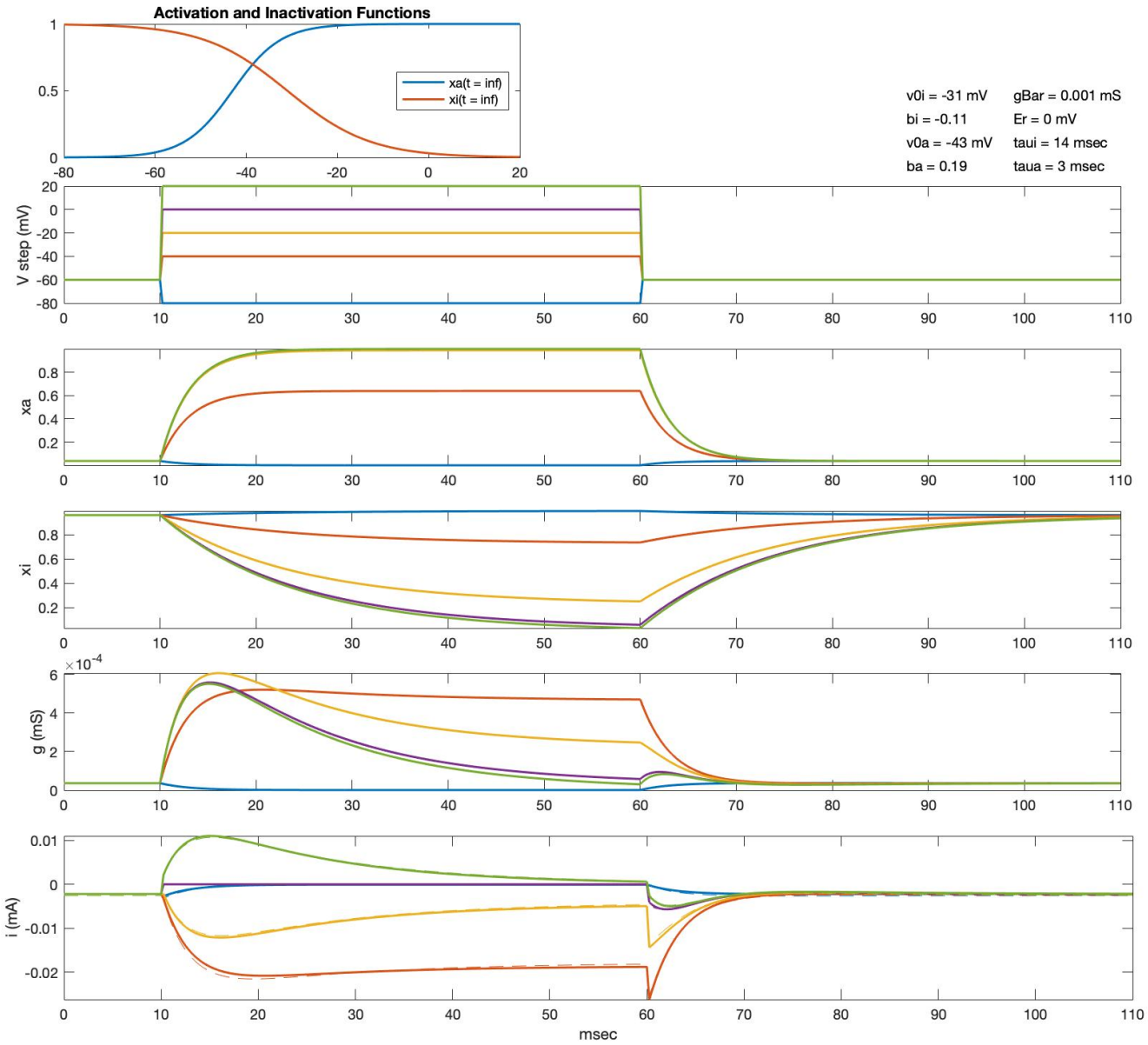

Figure 1 - Plots illustrating the behaviour of a MATLAB model that takes the provided voltage-clamp sweep as input and computes a current as output