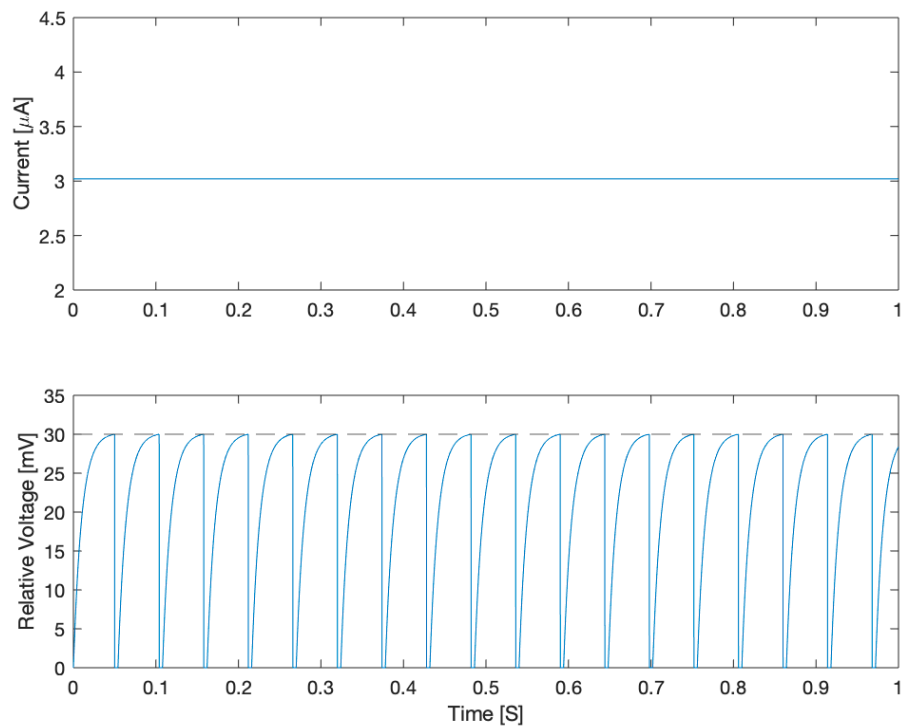
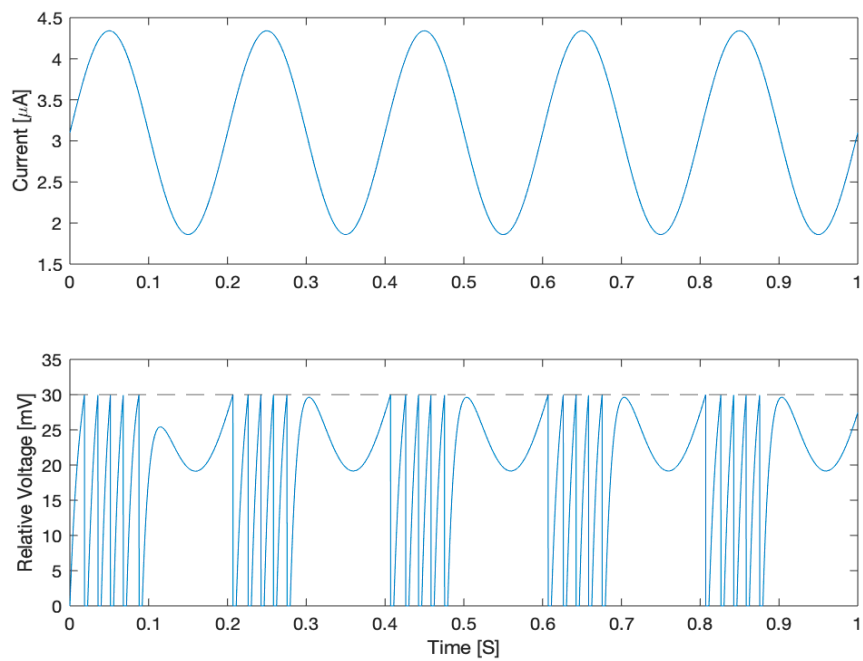


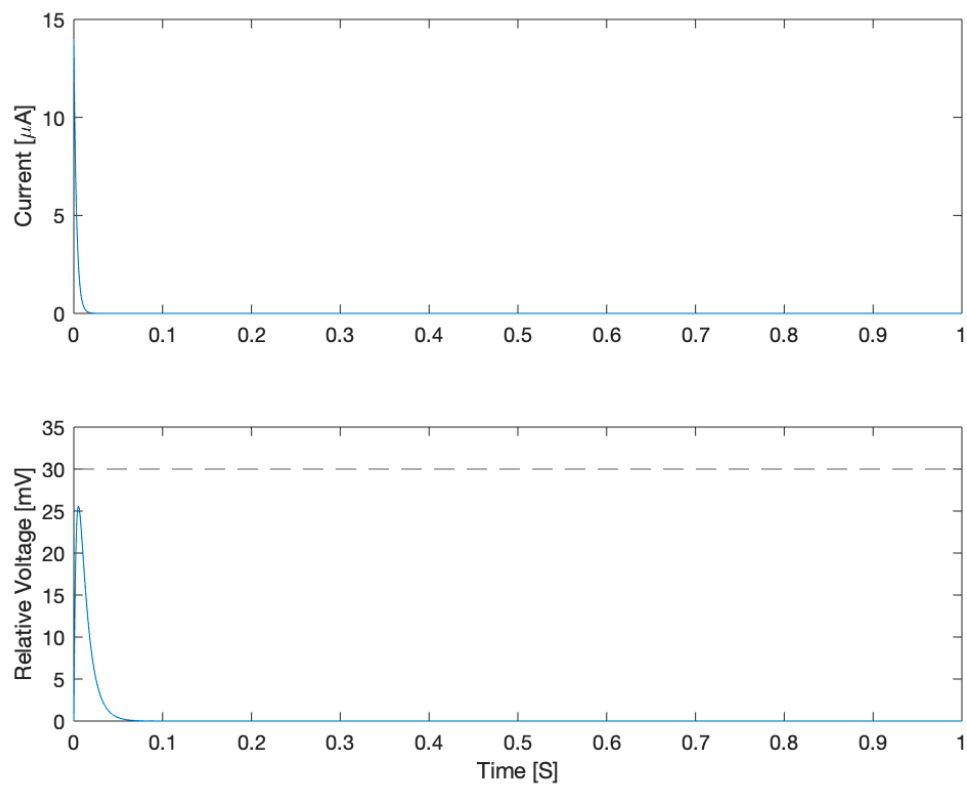
1. The constant current applied to an I&F neuron.



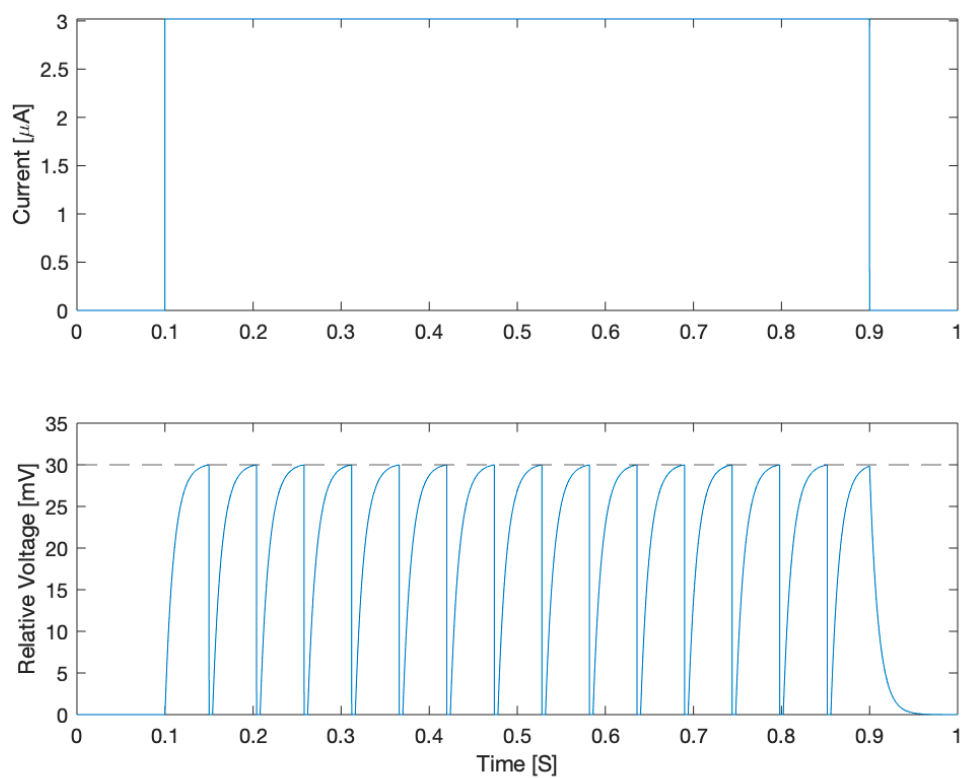
2. The 'Sine' current applied to an I&F neuron.



3. The 'Exponential current applied to an I&F neuron.



4. The 'Step' current applied to an I&F neuron.



5. The 'Step' current applied to a simple RC circuit (namely, without spikes).

To plot this case we extracted the following if statement from the code.

```
%      if VV >= TH % checks if the current value of the voltage is
higher or equal to the TH
%          VV = 0; % resets the voltage value
%          RP_flag = 1; % indicates the beginning of RP
%          t_RP_start = t(idx); % saves the time that RP has began.
%      end
```

