**COGS 17 A03 Week 3 Problem Set**

1. What is an action potential? Briefly describe the steps of an

action potential.

1. Which structure in neurons is responsible for the establishment of the resting potential? How does this structure help the neuron establish resting potential?
2. How do cells speed up the transduction of neural signals? Is this kind of transduction electrical or chemical?
3. Briefly explain the difference between ionotropic and metabotropic NTs.
4. What is EPSP/IPSP? What are two types of summation of EPSP/IPSP and what are the differences between them?
5. Describe several ways that can change the effectiveness of NTs.