

3. List the resting membrane potential values with the following conductance ratios with default ion concentrations:
- a. 1:1 (gNa:gK)
 - b. 20:1 (gNa:gK)
 - c. 1:30 (gNa:gK)
 - d. 1:50 (gNa:gK)
4. Using a conductance ratio of 1:50 (gNa:gK), change the concentration of extracellular sodium to 75mM. How does this affect the resting membrane potential and why?
5. **Extra Credit** What equation relates to questions 1 and 2? What equation relates to questions 3 and 4? Briefly describe what each of these equations is used to calculate, and under what conditions can they be used.