1. A corporation wants to develop a salary model with the following characteristics:
   a. Each employee's annual salary is a function of the number of years they have worked for the company.
   b. The salary of an individual increases more at the beginning of his/her career and levels off and approaches $100,000 as they continue to work but no one ever quite makes $100,000.
   c. The starting salary for an individual is $25,000.
   d. Someone who has worked 10 years will make exactly half of the limiting salary of $100,000.

Using functions with which you are familiar, develop a salary function that would meet their needs. Using your function, what would someone make after 20 years?

2. Repeat the previous modeling problem only this time assume that after 10 years you want folks to make 3/4 of the limiting salary.

3. What salary model might work if you want someone to make $25,000 initially, $100,000 after 30 years and never more than $102,000?