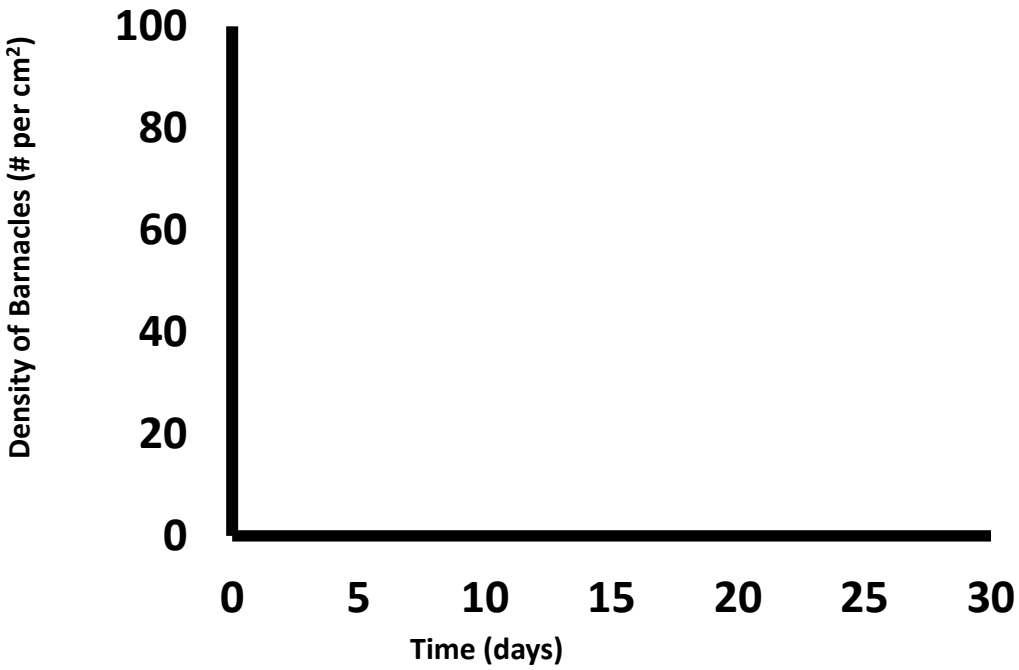
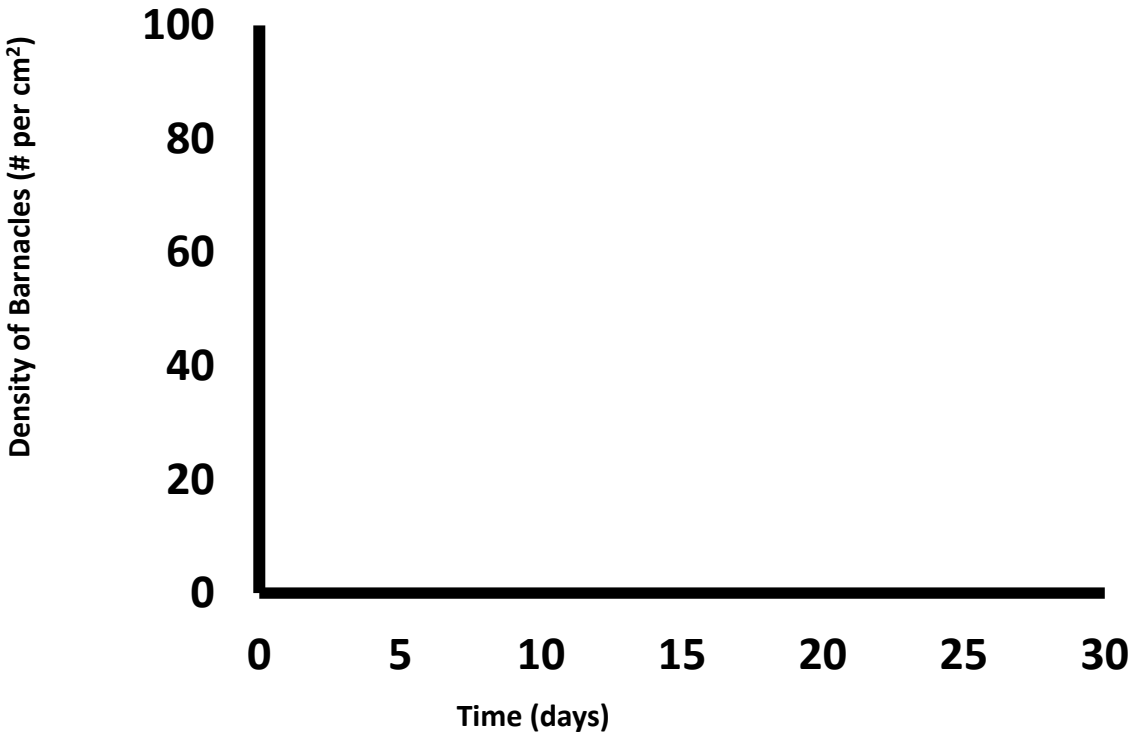
1. Draw on your paper what you would expect the growth of this population to look like over the 30 day experiment.



2. Use the data provided on the screen to plot the barnacle population growth.



3. If r=2 per day per individual and K= 80 barnacles per cm^2, how does increasing the population size (N) affect the population growth rate in the logistic model?

$$N_t = N_1 + rN_1\left(\frac{K - N_1}{K}\right)$$

Population Size (N) (barnacles per cm^2) on sampling day	How many barnacles would you expect to be in the population the following day? (barnacles per cm^2 / day)
1	
20	
40	
60	
70	
80	

4. Given our discussions about human population growth to date, draw a graph predicting how human population will change from now until July 1 2200. Be sure to label your axes.