

Quiz #2

Directions: Carefully read each question below and answer to the best of your ability in the space provided. You **MUST** show your work to receive full credit!

1. (5 points) Solve for x , $5^{2x-5} = 2^{x+6}$.

2. Assume that the number of bacteria follows an exponential growth model: $P(t) = P_0 e^{kt}$. The count in the bacteria culture was 100 after 10 minutes and 1000 after 30 minutes.

(a) (3 points) What was the initial size of the culture?

(b) (2 points) Find the population after 60 minutes.

Name: _____

Section (circle one): 003 004

Question:	1	2	Total
Points:	5	5	10
Score:			