Pre-Activity Worksheet: Population Dynamics

General Description
In the activity you will do this week during your learning/discussion group, you will be examining the growth of populations, both mathematically and conceptually. In order to be prepared for this activity, complete this worksheet.

Reading
Browse the “Population Ecology” chapter in your text. Pay particular attention to figures 53.18, 53.19, and 53.20. Carefully read the section on Population Growth beginning on pg. 1150.

Definitions
Write a definition of the following words. Use your text, textbook glossary, and your previous knowledge to create the best definition possible. Remember to connect your definitions to population ecology.

1) population
2) per capita
3) exponential
4) growth rate
5) density dependence

Questions
Answer the following questions. You will explore your answers to these questions in-depth during learning/discussion group.
1) What are the numerical limits of b (birth rate)? For example, one would represent the age limits of IU students registered full time in Fall 2002 as $14 \leq X \leq 75$.

2) What are the numerical limits of d (death rate)?

3) Name three density-independent factors and three density-dependent factors that could influence population growth.