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Question 2.

Imagine a population in which the distribution of children per woman is constant over time, and is $a_i = 1/3$, where $i = 1,2,3$.
We ask a number of women the following two questions:

1. How many children did you have? (Assume their childbearing days are over).
2. How many children did your mother have?

Part a: What is the average response to (1)?
Part b: What is the average response to (2)?
Part c: Will the population remain constant, increase or decrease?