**Problem Set 3**

**Umar Farooq Ghumman**

**Prob 2)**

**Plot for alpha=0.1, beta=0.5, lambda=10, mu=0.05, and num\_ensemble=1**

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**Plot of the steady-state probability distribution for a larger ensemble**

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**Plot of the steady-state probability distribution VS Poisson**

**Plot of the steady-state probability distribution VS negative binomial**