$\mu_{in} := 2 \qquad \mu_{out} := 2.5 \qquad p_{origin} := 0.8 \qquad S := 5$

$$p_1 := \frac{p_{origin}}{S} = 0.16 \qquad \lambda := \frac{\mu_{out}}{\frac{\mu_{in}}{p_{origin}} \cdot S} = 0.2$$

$$r := \frac{\left(\frac{\mu_{in}}{\mu_{out}}\right)^2 \cdot \left(1 + \frac{\sqrt{\mu_{out}^{-2}}}{\mu_{out}^{-1}}\right)^2}{2 \cdot \left(1 - \frac{\mu_{in}}{\mu_{out}}\right)} = 6.4 \qquad r := \frac{\left(\frac{p_1}{\lambda}\right)^2 \cdot \left(1 + \frac{\sqrt{\lambda^{-2}}}{\lambda^{-1}}\right)^2}{2 \cdot \left(1 - \frac{p_1}{\lambda}\right)} = 6.4$$

$$\sum_{i=0}^{\infty} \left(\left(1 - p_1\right)^i \left(1 - e^{-\lambda \cdot i}\right) - p_1 \cdot e^{-\lambda \cdot i}\right) \rightarrow 2.1649388707243052718$$

$$\sum_{i=0}^{\infty} \left(p_1 \cdot e^{-\lambda \cdot i}\right) \rightarrow 0.88266489058031916880$$

$$\sum_{i=0}^{\infty} \left(\left(1 - p_1\right)^i \left(1 - e^{-\lambda \cdot i}\right)\right) \rightarrow 3.0476037613046244406$$

$$\sum_{x=0}^{\infty} \left(1 - p_1\right) e^{-\lambda \cdot x} \rightarrow 4.6339906755466756362$$

$$\sum_{i=0}^{3} \left(p_1 \cdot e^{-\lambda \cdot i} - \sum_{j=1}^{i} \left(1 - p_1\right) \left(1 - e^{-\lambda \cdot (j-1)}\right)\right) \rightarrow -0.095405506525829850091$$

$$\lim_{x \rightarrow \infty} \frac{\left(1 - p_1\right) \left(1 - e^{-\lambda \cdot x}\right)}{p_1 \cdot e^{-\lambda \cdot x}} \rightarrow \infty$$