**SNA Assignment 2 Report**

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**Parameters**

N = 1000

k = 4

p = 0.005

S = N - 1

I = 1

R = 0

beta = 0.6

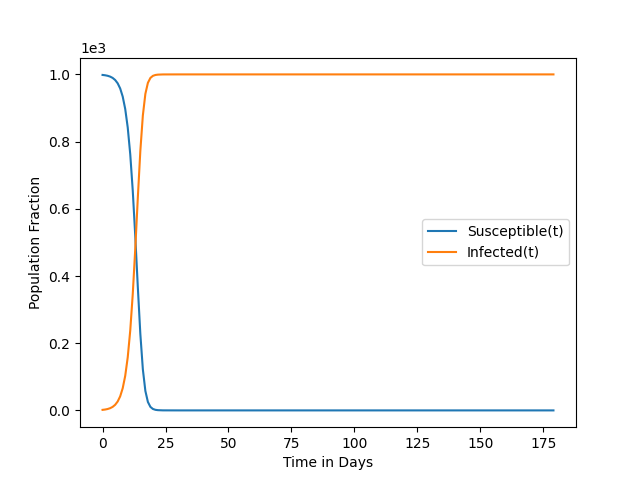
gamma = 0.05

mu = 0.2

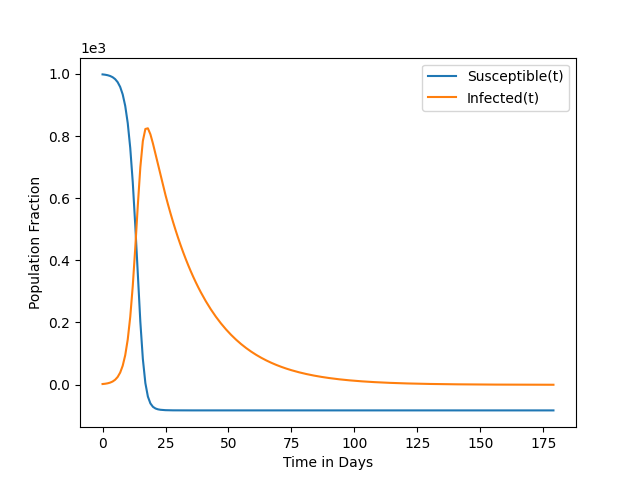
lambda = 0.4

number\_of\_days = 180

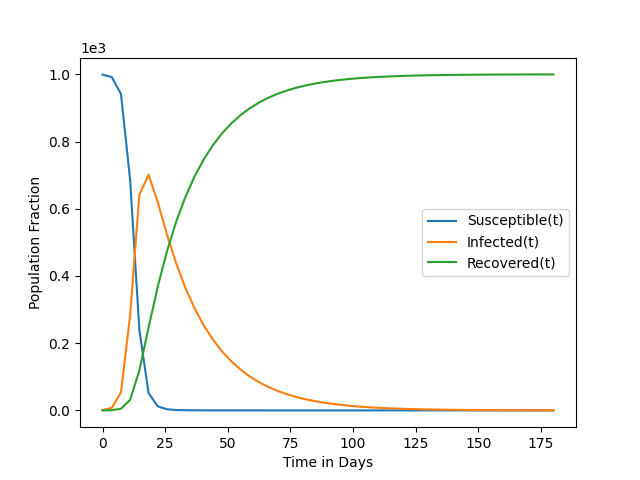
**SI Model**

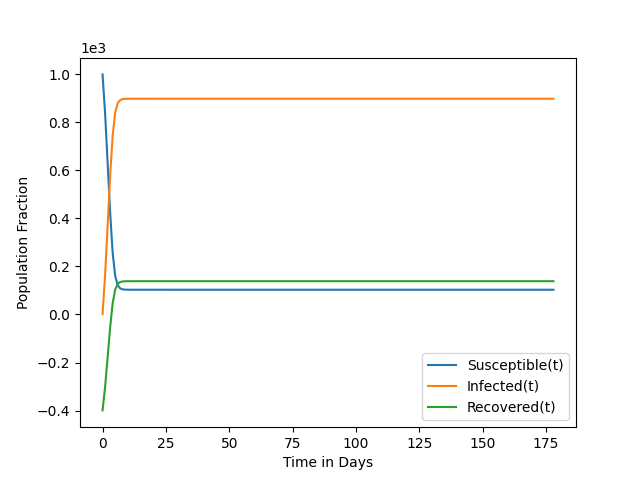


**SIS Model**



**SIR Model**

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**SIRS Model**