# *Understanding Viral Contagion Using SIR Model*

*Modelled using Excel and Mathematica*

*Explored Differential Equations, Taylor Series and Euler's Method*

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**Introduction:**

Since March of 2020, our small country Bangladesh was devasted with a pandemic. It was perplexing to us since we have never encountered such an occurrence. However, through my knowledge of history, I knew nothing ever happens once; I decided to search the occurrence of these pandemics, endemics, epidemics, and numerous other terms that describe the phenomenon of viral contagion – which is a given population rapidly infected with a virus. Being a higher-level math student, mathematics fascinates me; I often tend to find a mathematical approach to viewing things, and this applies across numerous domains; hence, I set out to find a mathematical approach to viewing virality. After my preliminary research I found numerous types of virus which go viral, to keep it within the scope of this investigation I will focus on respiratory viruses, the reason being is because respiratory virus tends to spread faster and usually are the ones to evolve to a pandemic, whereas virus spread by touch tends to spread slower.

Many internet personalities have mentioned flattening the curve, even my favorite YouTubers have talked greatly about it. Almost all of them have referred to this curve based on the SIR model, which piqued my curiosity because the nature of the curve was quite strange; usually, a single distinct curve is illustrated to demonstrate the effects of a virus, however, the SIR model employed three separate curves that were related to each other and were plotted in a single graph. It was perplexing and intriguing simultaneously, which is why I have attempted to investigate the SIR model and examines its validity in pandemics.

Throughout history, there have been numerous pandemics many of them were much deadlier than the current one, however, when those pandemics occurred there was not sufficient data. Since we live in the digital age of information, data is readily available to us. The novel coronavirus COVID-

19 is the first global pandemic to have taken place in my lifetime, hence, I will use COVID-19 to analyze the SIR model because this virus has left a devasting impact on our country and family.

**Introducing SIR Model:**

The model was first established by Kermack and Mckendrick in the year 1927, further work has been done on the model later on to create numerous variations of the SIR model.[1] According to the definition of the SIR model, this is an "epidemiological model that computes the theoretical number of people infected with a contagious illness in a closed population over time."[2] The model is rudimentary and often used for preliminary modeling of possible pandemics. It is also the most popularized and widely used model to describe a pandemic. Based on the nature of the virus – whether it has an incubation period, or can the virus infect an individual more than once, and other similar scenarios – a particular version of the SIR model use used. At the time of conducting this investigation, not much information on the nature of the virus is available on the internet, hence, the standard SIR model will be implemented. The investigation will use the following variables[3]:

$$N = Total\ Population$$

$$t = represents\ the\ time\ in\ days$$

$$S(t) = the\ number\ of\ susceptible\ individuals\ as\ a\ function\ of\ time$$

$$I(t) = the\ number\ of\ infected\ individuals\ as\ a\ function\ of\ time$$

$$R(t) = the\ number\ of\ recovered\ individuals\ as\ a\ function\ of\ time$$

$$dt = change\ in\ time$$

[1] "Compartmental Models in Epidemiology," Wikipedia (Wikimedia Foundation, February 28, 2021), https://en.wikipedia.org/wiki/Compartmental_models_in_epidemiology.
[2] https://mathworld.wolfram.com/SIRModel.html
[3] "The Sir Model for Spread of Disease - the Differential Equation Model," accessed January 13, 2021, https://www.maa.org/press/periodicals/loci/joma/the-sir-model-for-spread-of-disease-the-differential-equation-model.

**The model follows the following flow diagram:**

$$S \rightarrow I \rightarrow R$$

Initially, everyone is considered in the Susceptible population, they eventually move from the susceptible category to the infected category and finally the removed category. It is important to note that the model regards the deceased and recuperated as the same.

**The rate at which they change categories[4]:**

$$S' = -\beta SI$$

$$I' = +\beta SI - VI$$

$$R' = +VI$$

To elaborate on the equations above, $\beta$ is a constant for the transmission rate which when multiplied with the number of interactions between $S$ and $I$ – the number of interactions between the susceptible and infected population is represented by $SI$ – gives the rate at which the susceptible population is getting infected. The negative $-\beta SI$ represents the rate at which the population declines from the susceptible category. Therefore, the equation to describe the change in susceptible population is given by $S' = -\beta SI$. Additionally, the rate at which the susceptible category loses individuals is also the rate at which the infected category gains people, hence $+\beta SI$. Furthermore, the infected category also loses individuals as they eventually recover; this is given by multiplying the recovery constant, $V$, with the infected population, $I$, to give the rate at which the population recovers leading to $-VI$. Thus, the equation to describe both the rate at which the infected category gains and loses individuals is given by $I' = +\beta SI - VI$. The final category the

[4] "The Sir Model for Spread of Disease - the Differential Equation Model," accessed January 13, 2021, https://www.maa.org/press/periodicals/loci/joma/the-sir-model-for-spread-of-disease-the-differential-equation-model.

population enters is the removed category regardless of whether they die or recover; similarly, this category gains the population at the same rate at which the infected category loses the population, hence $+VI$. Therefore, the equation for the removed category is given by $R' = +VI$.

**Therefore, the following flow diagram represents the change in categories:**

$$S \overset{\beta SI}{\longrightarrow} I \overset{VI}{\rightarrow} R$$

**The assumptions the SIR model considers:**

1. Every individual may interact with one another – which in some cases is referred to as homogenous mixing – which is represented by multiplying the susceptible population with the infected population:

$$SI$$

2. The population is regarded as constant because pandemics are a burst of viral contagion of a virus that lasts for a very short time in comparison to the human population which grows at a much slower rate. Furthermore, the model assumes there is no change in net migration, no change in tourists due to travel seasons, or any activity that may result in a spike or fall in population. Therefore, the net population change can be represented by[5]:

$$(S + I + R)' = S' + I' + R' = -\beta SI + \beta SI - VI + VI = 0$$

where zero refers to no change in the population.

3. No latency/incubation period is considered for this model. It is assumed the virus is active and working as soon as a susceptible individual interacts with an infected individual.

[5] "The Sir Model for Spread of Disease - the Differential Equation Model," accessed January 13, 2021, https://www.maa.org/press/periodicals/loci/joma/the-sir-model-for-spread-of-disease-the-differential-equation-model.

**COVID-19:**

The novel coronavirus COVID-19 is a respiratory virus that spreads through "respiratory droplets and aerosol"; which means when an infected individual coughs or sneezes, the water droplets containing the virus propels through the air across the room to infect another individual.[6] Respiratory droplets which is a key trait of respiratory diseases; such diseases tend to spread rapidly as the infected individual is unaware of their ailments[7]. The model does not consider the severity of the illness, but rather if they are infected or not. At the time of this investigation not much is known about the novel coronavirus, information such as prevention or the incubation period or not known, furthermore, the coronavirus disease 2019 is assumed to infect an individual a single time, which means an individual from the removed category cannot be infected again. Hence, the SIR model will be applicable for this virus. Additionally, the investigation aims to model viral contagion, SIR model has been chosen preferably but the investigation should not suggest that this model should be given preference over any other. Moreover, this investigation is a mathematical approach and so it does not emphasize the underlying biology behind these viruses. COVID-19 has had a global outspread; but, I intend to focus on my country Bangladesh.

To model the virus, two key pieces of information would be needed, which are:

The rate at which the population was infected, often referred to as the transmission rate $(\beta)$ [8]:

$$\beta = 0.187$$

[6] "Basic Reproduction Number," Wikipedia (Wikimedia Foundation, February 16, 2021), https://en.wikipedia.org/wiki/Basic_reproduction_number.
[7] "Basic Reproduction Number," Wikipedia (Wikimedia Foundation, February 16, 2021), https://en.wikipedia.org/wiki/Basic_reproduction_number.
[8] Raguib Hassan et al., "Prediction of Epidemics Trend of COVID-19 in Bangladesh," Frontiers (Frontiers, September 15, 2020), https://www.frontiersin.org/articles/10.3389/fpubh.2020.559437/full.

Along with the rate at which the population enters the removed category, referred to as the recovery rate $(V)$ [9]:

$$V = 0.006$$

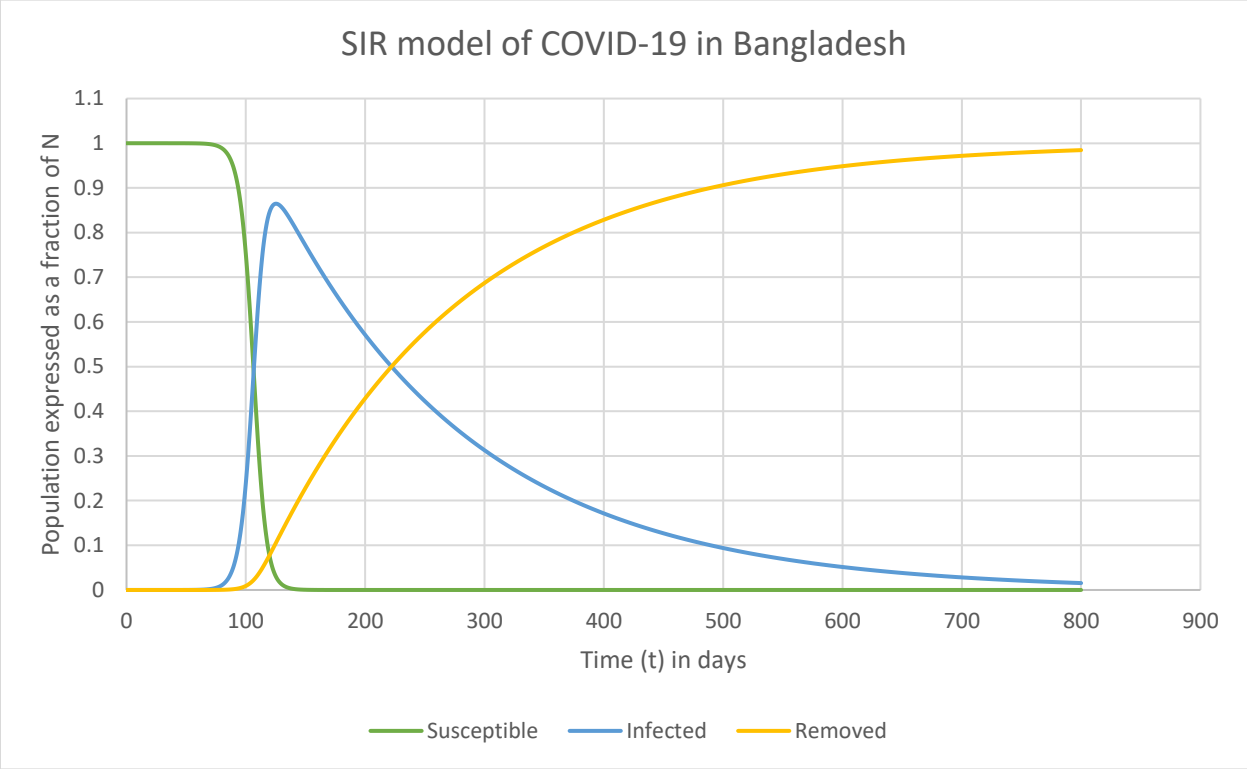



Figure 1: The model was created using Microsoft Excel 2019

Figure 1 illustrates the SIR model for Bangladesh when the appropriate equations and data were plotted for the equations $(S', I', R')$, the table can be found in the appendix. The pandemic has been around for several months now, so it was wise to take an appropriate timeline to demonstrate the entire model; as such, I have selected 800 days for the model to compute. The figure resembles a typical SIR model graph, however, when observed carefully there are few distinct features to this graph. First of all, the timeline for this pandemic – from its inception to its end – is unusually long. The second point to notice is the infected curve does not peak at 1 on the vertical axis, which is

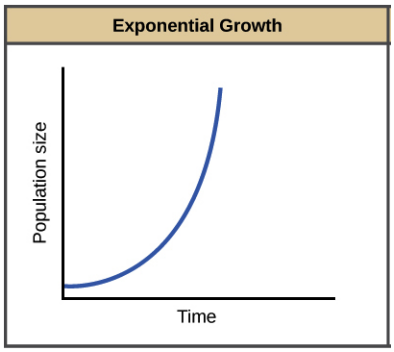
[9] Raguib Hassan et al., "Prediction of Epidemics Trend of COVID-19 in Bangladesh," Frontiers (Frontiers, September 15, 2020), https://www.frontiersin.org/articles/10.3389/fpubh.2020.559437/full.

the population expressed as a fraction of the total population, which suggests some prevention procedures have been taken by the country. Around the 100$^{th}$ day the infected curve spikes while the susceptible curve plummets; this suggests there is an inverse relationship between the two curves until the 120$^{th}$ day. Both curves intersect at around 0.5 – half the population was still in the susceptible category while the other half was infected. Since during the initial phases of the novel coronavirus, there were no vaccines or treatment available the only possible deduction that can be made of the removed curve is that the individuals entering the removed category have deceased from the illness. Around the 140$^{th}$ day the infected curve peaks and start to decrease at a decreasing rate, while the removed curve starts to increase at a decreasing rate. At this point the susceptible population has reached near zero which suggests everyone in the country has the disease by the 140$^{th}$ day, however, real-time data suggests the contrary. In fact, out of the 164 million people in the country, not even a million have had COVID-19; although this could be blamed on the lack of testing. Coincidently, around the 220$^{th}$ day, the infected and removed curve intersect at 0.5 and continue in their trajectory in a manner that if u were to draw a line from point 0.5 you would notice that from day 220$^{th}$ and onwards the infected and removed curve mirror each other. This would suggest there is an inverse relationship between the infected and removed from day 220$^{th}$ and onwards.

It is important to note that these curves may appear to be exponential, however, they are not necessarily. Judging by the S-shaped nature of the removed curve, it can be assumed it is a logistic curve.

**Exponential & Logistic Growth:**

Exponential: The population's per individual growth rate remains the same regardless of the population size, hence, the bigger the population gets the faster it grows.[10] They tend to be J-shaped curves.[11]




Exponential Growth Curve Adapted from Khan Academy[12]

Logistic Growth: The population's per individual growth reduces as population size approaches its maximum limit; the maximum limit is also referred to as the carrying capacity.[13] They tend to be S-shaped curves.[14]

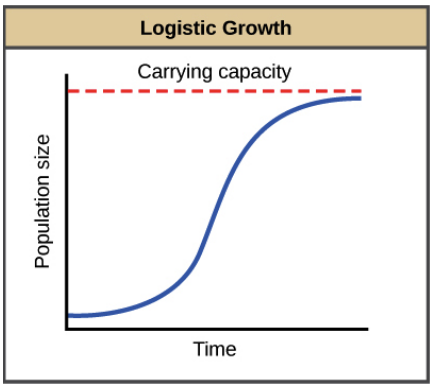
[10] "Exponential Growth & Logistic Growth (Article)," Khan Academy (Khan Academy), accessed March 4, 2021, https://www.khanacademy.org/science/ap-biology/ecology-ap/population-ecology-ap/a/exponential-logistic-growth.

[11] "Exponential Growth & Logistic Growth (Article),"

[12] "Exponential Growth & Logistic Growth (Article),"

[13] "Exponential Growth & Logistic Growth (Article)," Khan Academy (Khan Academy), accessed March 4, 2021, https://www.khanacademy.org/science/ap-biology/ecology-ap/population-ecology-ap/a/exponential-logistic-growth.

[14] "Exponential Growth & Logistic Growth (Article),"




Logistic Growth Curve Adapted from Khan Academy[15]

Based on the images provided, it can be assumed the removed curve reaches its carrying capacity of 1 (total population) as the limiting factor is that there can be no more recovered individuals above the total population. Therefore, we see a S-shaped curve for the removed curve. Furthermore, since initially we have been provided with the rate of change of the curve, it can be assumed that the function for this removed curve could be a logistic growth function. Although, the removed curve does not entirely appear S-shaped, so it makes it difficult for us to determine its equation.

In an attempt to compress the graph, I tried to increase the increment value of the time $(t)$ in the graph from 1 – which I used for Figure 1 – to 20; this would mean instead of the graph plotting the curves for day 0, 1, 2, 3, 4 it would plot for 0, 20, 40, 60 and so on. The results were perplexing yet fascinating as shown in Figure 2.

[15] "Exponential Growth & Logistic Growth (Article),"

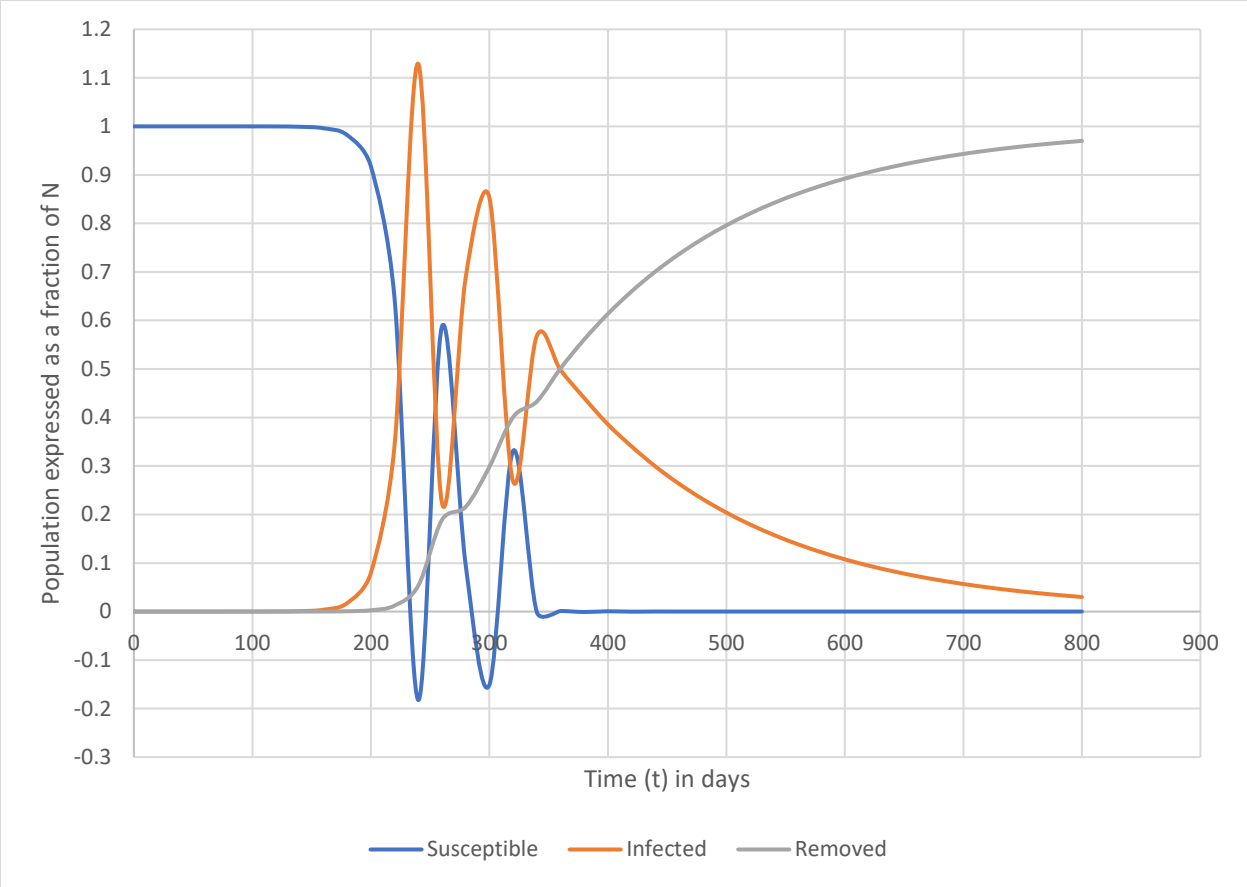



Figure 2: The SIR model of Bangladesh using $t$ increment value of 20

All other data was the same for this model, the only change made was to the $t$ increment value. This is an abnormal phenomenon that is not present in other SIR models. To explain this phenomenon, I had to look into the equations inserted in Excel and observe any anomalies. I noticed I approached this modeling in an iterative method similar to approaches I have for programming. Since I utilized my computer science knowledge to model this virus, I inadvertently utilized a mathematical approach to linearize the differential equations, one that was established by a prolific mathematician, which was Euler's Method.

**Euler's Method:**

Named after renowned mathematician Leonhard Euler, Euler's method is an approach to solve differential equations that otherwise could not be solved using traditional methods. The approach employs the idea of "local linearity or linear approximation" where we utilize "tangent lines to approximate the solution of an initial-value problem".[16] Euler's Method is often applied using computers to deal with complex problems, large amounts of data, and numerous equations simultaneously; as such, the approximations significantly speed up the computing time. The following diagram shows Euler's Method being implemented; a tangent is drawn at a point, it is extrapolated to find another point on the curve, using the new points a new tangent is drawn to find another point on the curve, this process is continued until we arrive at an approximation of the desired solution.

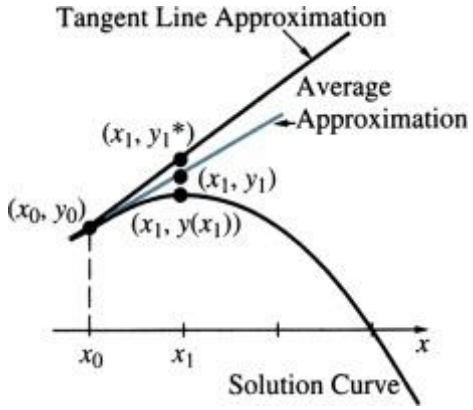



Figure 3: A diagram demonstrating how Euler's Method is implemented[17]

[16] "How to Do Euler's Method? (Simply Explained in 4 Powerful Examples)," Calcworkshop, December 31, 2019, https://calcworkshop.com/first-order-differential-equations/eulers-method-table/#:~:text=Euler%27s%20Method%2C%20is%20just%20another,to%20an%20initial-value%20problem.&text=We%20will%20begin%20by%20learning%20Euler%27s%20Method%20Formula.

[17] "Euler Method," Euler Method - an overview | ScienceDirect Topics, accessed March 5, 2021, https://www.sciencedirect.com/topics/computer-science/euler-method.

The reason to use Euler's Method is we were provided an initial value – for our case $(S_0, I_0, R_0)$ – and the slope of the curve; the function of the curve is not known to us, so we cannot plot the points which is why we resort to approximating the shape of the curve according to the step size formed with the tangents.

Furthermore, Euler's Method makes the assumption the solution can be written in the form of a Taylor Series.[18] Fortunately, for Euler's Method approach to the SIR model, we will only need the first two terms, of that one of them is the initial values to the system of ordinary differential equations employed. The equations are written in the following form[19]:

$$S_{t+1} = S_t - (\beta S_t I_t)dt$$

$$I_{t+1} = I_t + (\beta S_t I_t - V I_t)dt$$

$$R_{t+1} = R_t + V I_t dt$$

**Taylor Series:**

Taylor Series is an expansion series of a given function about a point.[20] The partial sums of the series can be utilized to approximate the function.[21] An example of a Taylor series is provided below[22]:

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \frac{f^{(3)}(a)}{3!}(x-a)^3 + \ldots + \frac{f^{(n)}(a)}{n!}(x-a)^n + \ldots.$$

[18] Murray Bourne, "11. Euler's Method - a Numerical Solution for Differential Equations," intmathcom RSS, accessed March 4, 2021, https://www.intmath.com/differential-equations/11-eulers-method-des.php.
[19] Brian Sullivan, "SIR Model For Disease Spread- 3. Euler Integration in Spreadsheets," YouTube (YouTube, April 7, 2020), https://www.youtube.com/watch?v=2Hsl1C1ov5c.
[20] "Taylor Series," from Wolfram MathWorld, accessed March 4, 2021, https://mathworld.wolfram.com/TaylorSeries.html.
[21] "Taylor Series," Wikipedia (Wikimedia Foundation, March 2, 2021), https://en.wikipedia.org/wiki/Taylor_series.
[22] "Taylor Series," from Wolfram MathWorld, accessed March 4, 2021, https://mathworld.wolfram.com/TaylorSeries.html.

Taylor polynomials allow us to use the derivative information at a point to obtain the information of a nearby point. In the Excel spreadsheet we have utilized an iterative approach to model the virus, which means we utilized the Taylor Series for our system of ordinary differential equations in the following form, as outlined in the table:

| Time in Days | Susceptible ($S_t$) | Infected ($I_t$) | Removed ($R_t$) |
|---|---|---|---|
| t=0 | $S_0 = 1$ | $I_0 = 1.82927E-08$ | $R_0 = 0$ |
| t=1 | $S_1 = S_0 - (0.187 * S_0 * I_0) * 1$ | $I_1 = I_0 + (0.187 * S_0 * I_0 - 0.06 * I_0) * 1$ | $R_1 = R_0 - (0.06 * I_0) * 1$ |
| … | …. | …. | …. |
| t=n | $S_n = S_{n-1} - (0.187 * S_{n-1} * I_{n-1}) * dt$ | $I_n = I_{n-1} + (0.187 * S_{n-1} * I_{n-1} - 0.06 * I_{n-1}) * dt$ | $R_n = R_{n-1} - (0.06 * I_{n-1}) * dt$ |

Returning to Figure 2, the curves have a sinusoidal shape whereas the curves in Figure 1 resembled the shape of logistic curves. Despite the oddities, the curves have maintained few similarities with Figure 1 where the $S'$ and $I'$ curves and $I'$ and $R'$ curves intersect at point 0.5. However, there are more intersection among the $S'$ and $I'$ curves this time, as shown in the graph above. Furthermore, the $S'$ the curve also dips to the negative vertical axis three times, and quickly sprouts back; the shape of the curve appears analogous to the shape of a curve that models the behavior of a bouncing

ball. We already explained how Euler's Method works, therefore the explanation to these anomalies would be simple. For Figure 1, the increment value for $t$ was set to 1, so for each day passed 0, 1, 2, 3, 4 there would be a corresponding value for the $S', I',$ and $R'$ curve; additionally, the tangents drawn using one point to approximate the next point on the curve would be smaller. Smaller the tangents, the smaller the step size of the curves, which would mean more points of the curve were calculated; the greater number of points have resulted in better accuracy of the direction to draw the tangents. Hence, the result was a better-shaped curve that had approximated the solution much closer to the actual one; which means a smaller error percentage. While for Figure 2, $t$ increment value was 20, it resulted in longer tangents and bigger approximations to be made, along with fewer data points as we now had days in 0, 20, 40, 60, resulting the shape in Figure 2. Furthermore, this would also suggest if $t$ were assigned a smaller value than 1 then it would have created a better curve, although, since $t$ is in days, anything less than 1 would mean it would be calculated in hours. It is important to know that most pandemics aren't measured in hours as such a catastrophic disease is very rare; there have been only a few recorded diseases in history where there has been a noticeable change in population categories in hours. Black Plague is one such disease, however, since it was not a respiratory disease but rather a bubonic plague, it has been left us of this investigation. The result of setting $t = 0.5$ is illustrated in Figure 4.

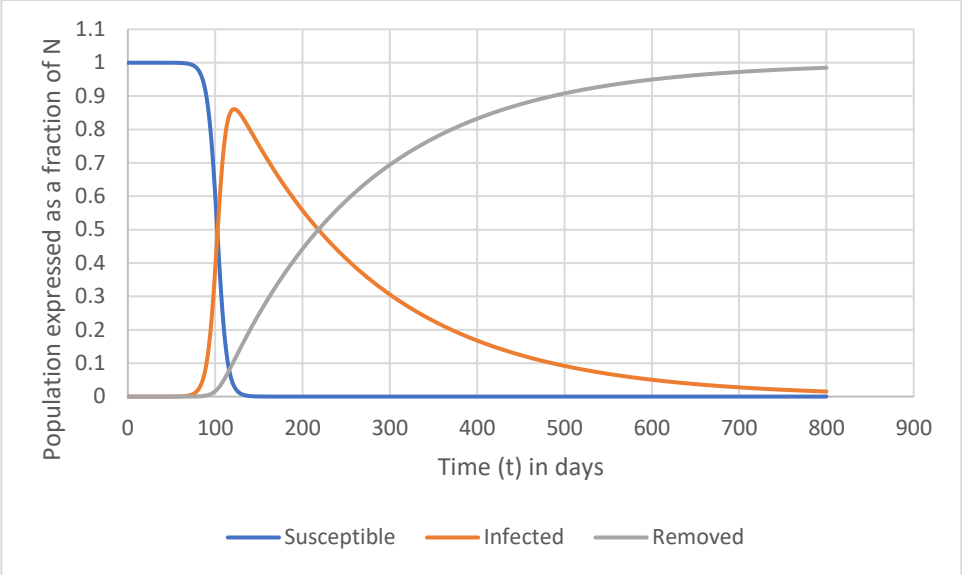



Figure 4: t increment value set to 0.5

The graph above shows there isn't any noticeable difference in setting $t$ increment value to 0.5; in fact, it appears analogous to Figure 1 with a $t$ increment value of 1. Setting $t$ increment value to 0.5 would only make analyzing the graph and data much more difficult. If we set the increment value of $t$ to 10, it would result in a much better approximation, as shown in Figure 5.

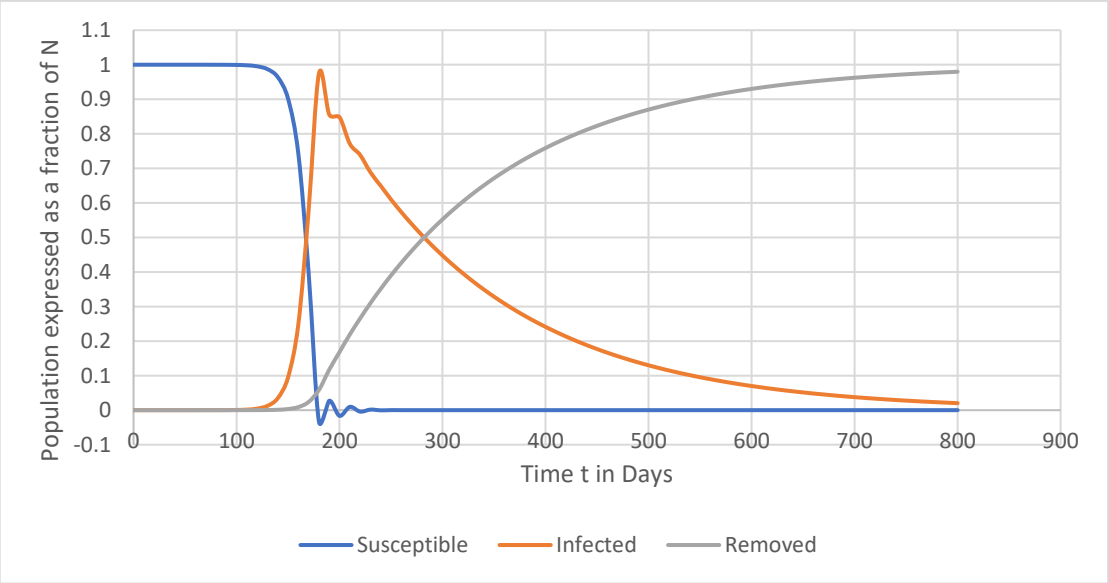



Figure 5: t increment value set to 10

Interestingly, the difference between setting $t$ increment value to 10 and 20 is shocking. Figure 5 has only a few dips in the negative axis and few areas where the curve goes up and down, otherwise, it does not have the numerous intersections of curves as Figure 2 did and appears similar to Figure 1.

**Further Application:**

The SIR model is primarily implemented in the field of epidemiology; usually for viruses that can infect a person a single time. It is used to understand the overall effect of a virus on a population and how to curb its effects through vaccination, prevention, and other safety precautions. The model can certainly be implemented for other pandemics; however, the nature of the virus needs to be considered because this rudimentary SIR model utilizes three ordinary differential equations and can only provide an overall picture of the whole pandemic. Epidemiological viruses behave in a similar way to computer viruses, it would be interesting to see further research being done on this model where its implementation is stretched beyond the field of epidemiology. Although computer viruses usually do not become pandemics (that they infect large numbers of computers) because of effective anti-viruses and security protocols implemented that would deal with the virus before they spread too much. The model should not be limited to only viruses, but rather could possibly be applicable for anything that becomes viral; for example, the model could be applied to memes or the stock market as well.

**Conclusion:**

The SIR model is a widely used epidemiological model and is often the primary model employed to understand the impact of a virus. As such, it is important to understand this model is applicable

only for certain types of diseases that would go viral rapidly, because if the time taken for the virus to spread is too long, let's say 10 days, then the model will draw longer tangents which may result in an inaccurate approximation. Therefore, such models are usually applicable for disease such as the coronavirus disease 2019 because it spreads rapidly. Furthermore, assumptions such as homogenous mixture make it difficult to track the virus as it assumes everyone interacts with everyone else which is not the case in the real world; some people spread the virus more than others. It also does not take into account the virus density in an individual which could cause some to spread more than others. Additionally, it is difficult to measure the virus population, hence the model should serve as an estimation and not be regarded as concrete facts. The time $t$ increment value must be set according to the virus's transmission rate; if it is spreading daily setting the time increment to weekly would lead to poor approximations or setting the increment to hourly would lead to unnecessarily large amounts of data that is difficult to analyze, similar to the scenarios mentioned above.

After this analysis of COVID-19 and as we are updated with new information from the news daily, the SIR model does not properly illustrate this virus because this is a dynamic virus, which means at certain seasons it spreads more and a person can also get this disease more than once. Therefore, the SIRS model wouldn't have been ideal for such a disease, and a more dynamic approach to model the disease was needed. As the news has mentioned, the transmission and recovery rate has fluctuated over a year; this would mean the SIR model has not done a desirable job in portraying the virus. Furthermore, this model does not include the possibility of an incubation period, which could have been necessary for this disease. The model had predicted that after 100 days 80% of the population would be infected in our country, however, the infected population has not reached such great heights in our country, fortunately. Conversely, our country does not have sufficient

testing facilities, so it is difficult and arduous to examine the accuracy of this model for our country. Through this investigation, I was able to explore this epidemiological model across various mathematic fields: differential equations, Euler's Method, Taylor Series, logistic and exponential growth. Nevertheless, I fulfilled my yearning to understand the magnitude of COVID-19 in our country, and simultaneously pursued my interest in learning about viruses and their mathematical relationship.

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**Appendix:**

$$dt = 1. t\ increment\ is\ 1$$

| Time/Day | Susceptible | Infected | Removed |
|---|---|---|---|
| 0 | 0.99999998 | 1.82927E-08 | 0 |
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| 4 | 0.99999996 | 3.55858E-08 | 5.73253E-10 |
| 5 | 0.99999996 | 4.20269E-08 | 7.86768E-10 |
| 6 | 0.99999995 | 4.96337E-08 | 1.03893E-09 |
| 7 | 0.99999994 | 5.86174E-08 | 1.33673E-09 |
| 8 | 0.99999993 | 6.92272E-08 | 1.68844E-09 |
| 9 | 0.99999992 | 8.17573E-08 | 2.1038E-09 |
| 10 | 0.9999999 | 9.65554E-08 | 2.59434E-09 |
| 11 | 0.99999988 | 1.14032E-07 | 3.17368E-09 |
| 12 | 0.99999986 | 1.34672E-07 | 3.85787E-09 |
| 13 | 0.99999984 | 1.59047E-07 | 4.6659E-09 |
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| 15 | 0.99999977 | 2.21833E-07 | 6.74719E-09 |
| 16 | 0.99999973 | 2.61985E-07 | 8.07818E-09 |
| 17 | 0.99999968 | 3.09404E-07 | 9.65009E-09 |
| 18 | 0.99999962 | 3.65406E-07 | 1.15065E-08 |
| 19 | 0.99999955 | 4.31544E-07 | 1.36989E-08 |
| 20 | 0.99999947 | 5.09654E-07 | 1.62882E-08 |
| 21 | 0.99999938 | 6.01901E-07 | 1.93461E-08 |
| 22 | 0.99999927 | 7.10845E-07 | 2.29575E-08 |
| 23 | 0.99999913 | 8.39508E-07 | 2.72226E-08 |
| 24 | 0.99999898 | 9.91459E-07 | 3.22597E-08 |
| 25 | 0.99999879 | 1.17091E-06 | 3.82084E-08 |
| 26 | 0.99999857 | 1.38285E-06 | 4.52339E-08 |
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| 28 | 0.99999801 | 1.92874E-06 | 6.33298E-08 |
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| 30 | 0.99999722 | 2.69013E-06 | 8.85693E-08 |
| 31 | 0.99999672 | 3.17704E-06 | 1.0471E-07 |
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| 33 | 0.99999542 | 4.43121E-06 | 1.46285E-07 |
| 34 | 0.99999459 | 5.23325E-06 | 1.72872E-07 |
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| 36 | 0.99999246 | 7.29913E-06 | 2.41354E-07 |
| 37 | 0.99999109 | 8.62026E-06 | 2.85149E-07 |
| 38 | 0.99998948 | 1.01805E-05 | 3.36871E-07 |

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| 61 | 0.99951749 | 0.000467023 | 1.54843E-05 |
| 62 | 0.9994302 | 0.000551511 | 1.82865E-05 |
| 63 | 0.99932713 | 0.000651276 | 2.15955E-05 |
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| 92 | 0.92182884 | 0.075568157 | 0.002603 |
| 93 | 0.90880225 | 0.088141338 | 0.003056409 |
| 94 | 0.89382298 | 0.102591759 | 0.003585257 |
| 95 | 0.87667529 | 0.119123898 | 0.004200808 |
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| 99 | 0.78242996 | 0.209772779 | 0.007797264 |
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| 131 | 0.01084624 | 0.853819544 | 0.135334217 |
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| 166 | 4.334E-05 | 0.700749228 | 0.299207432 |
| 167 | 3.7661E-05 | 0.696550412 | 0.303411927 |

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| 169 | 2.8515E-05 | 0.688226 | 0.311745486 |
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| 189 | 2.131E-06 | 0.61020544 | 0.389792429 |
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| 206 | 3.0073E-07 | 0.550865993 | 0.449133706 |
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| 208 | 2.4213E-07 | 0.544275491 | 0.455724267 |
| 209 | 2.1749E-07 | 0.541009863 | 0.45898992 |
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| 248 | 5.3874E-09 | 0.427833073 | 0.572166921 |
| 249 | 4.9564E-09 | 0.425266075 | 0.57473392 |
| 250 | 4.5622E-09 | 0.422714479 | 0.577285516 |
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| 252 | 3.8715E-09 | 0.417657124 | 0.582342872 |
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| 255 | 3.038E-09 | 0.410184313 | 0.589815684 |
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| 288 | 2.7914E-10 | 0.336302221 | 0.663697779 |
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| 476 | 1.9764E-13 | 0.108485077 | 0.891514923 |
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| 553 | 5.5813E-14 | 0.068252977 | 0.931747023 |
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| 607 | 3.0831E-14 | 0.049315831 | 0.950684169 |
| 608 | 3.0547E-14 | 0.049019936 | 0.950980064 |
| 609 | 3.0267E-14 | 0.048725817 | 0.951274183 |
| 610 | 2.9991E-14 | 0.048433462 | 0.951566538 |
| 611 | 2.972E-14 | 0.048142861 | 0.951857139 |
| 612 | 2.9452E-14 | 0.047854004 | 0.952145996 |
| 613 | 2.9188E-14 | 0.04756688 | 0.95243312 |
| 614 | 2.8929E-14 | 0.047281479 | 0.952718521 |
| 615 | 2.8673E-14 | 0.04699779 | 0.95300221 |
| 616 | 2.8421E-14 | 0.046715803 | 0.953284197 |
| 617 | 2.8173E-14 | 0.046435508 | 0.953564492 |
| 618 | 2.7928E-14 | 0.046156895 | 0.953843105 |
| 619 | 2.7687E-14 | 0.045879954 | 0.954120046 |
| 620 | 2.7449E-14 | 0.045604674 | 0.954395326 |
| 621 | 2.7215E-14 | 0.045331046 | 0.954668954 |
| 622 | 2.6985E-14 | 0.04505906 | 0.95494094 |
| 623 | 2.6757E-14 | 0.044788705 | 0.955211295 |
| 624 | 2.6533E-14 | 0.044519973 | 0.955480027 |
| 625 | 2.6312E-14 | 0.044252853 | 0.955747147 |
| 626 | 2.6095E-14 | 0.043987336 | 0.956012664 |
| 627 | 2.588E-14 | 0.043723412 | 0.956276588 |
| 628 | 2.5668E-14 | 0.043461072 | 0.956538928 |
| 629 | 2.546E-14 | 0.043200305 | 0.956799695 |
| 630 | 2.5254E-14 | 0.042941103 | 0.957058897 |
| 631 | 2.5051E-14 | 0.042683457 | 0.957316543 |
| 632 | 2.4851E-14 | 0.042427356 | 0.957572644 |
| 633 | 2.4654E-14 | 0.042172792 | 0.957827208 |
| 634 | 2.446E-14 | 0.041919755 | 0.958080245 |
| 635 | 2.4268E-14 | 0.041668237 | 0.958331763 |
| 636 | 2.4079E-14 | 0.041418227 | 0.958581773 |
| 637 | 2.3892E-14 | 0.041169718 | 0.958830282 |
| 638 | 2.3708E-14 | 0.0409227 | 0.9590773 |
| 639 | 2.3527E-14 | 0.040677163 | 0.959322837 |
| 640 | 2.3348E-14 | 0.0404331 | 0.9595669 |

| | | | |
|---|---|---|---|
| 641 | 2.3171E-14 | 0.040190502 | 0.959809498 |
| 642 | 2.2997E-14 | 0.039949359 | 0.960050641 |
| 643 | 2.2826E-14 | 0.039709663 | 0.960290337 |
| 644 | 2.2656E-14 | 0.039471405 | 0.960528595 |
| 645 | 2.2489E-14 | 0.039234576 | 0.960765424 |
| 646 | 2.2324E-14 | 0.038999169 | 0.961000831 |
| 647 | 2.2161E-14 | 0.038765174 | 0.961234826 |
| 648 | 2.2E-14 | 0.038532583 | 0.961467417 |
| 649 | 2.1842E-14 | 0.038301387 | 0.961698613 |
| 650 | 2.1685E-14 | 0.038071579 | 0.961928421 |
| 651 | 2.1531E-14 | 0.037843149 | 0.962156851 |
| 652 | 2.1379E-14 | 0.037616091 | 0.962383909 |
| 653 | 2.1228E-14 | 0.037390394 | 0.962609606 |
| 654 | 2.108E-14 | 0.037166052 | 0.962833948 |
| 655 | 2.0933E-14 | 0.036943055 | 0.963056945 |
| 656 | 2.0789E-14 | 0.036721397 | 0.963278603 |
| 657 | 2.0646E-14 | 0.036501069 | 0.963498931 |
| 658 | 2.0505E-14 | 0.036282062 | 0.963717938 |
| 659 | 2.0366E-14 | 0.03606437 | 0.96393563 |
| 660 | 2.0229E-14 | 0.035847984 | 0.964152016 |
| 661 | 2.0093E-14 | 0.035632896 | 0.964367104 |
| 662 | 1.9959E-14 | 0.035419098 | 0.964580902 |
| 663 | 1.9827E-14 | 0.035206584 | 0.964793416 |
| 664 | 1.9696E-14 | 0.034995344 | 0.965004656 |
| 665 | 1.9567E-14 | 0.034785372 | 0.965214628 |
| 666 | 1.944E-14 | 0.03457666 | 0.96542334 |
| 667 | 1.9314E-14 | 0.0343692 | 0.9656308 |
| 668 | 1.919E-14 | 0.034162985 | 0.965837015 |
| 669 | 1.9068E-14 | 0.033958007 | 0.966041993 |
| 670 | 1.8947E-14 | 0.033754259 | 0.966245741 |
| 671 | 1.8827E-14 | 0.033551733 | 0.966448267 |
| 672 | 1.8709E-14 | 0.033350423 | 0.966649577 |
| 673 | 1.8592E-14 | 0.03315032 | 0.96684968 |
| 674 | 1.8477E-14 | 0.032951418 | 0.967048582 |
| 675 | 1.8363E-14 | 0.03275371 | 0.96724629 |
| 676 | 1.8251E-14 | 0.032557188 | 0.967442812 |
| 677 | 1.814E-14 | 0.032361844 | 0.967638156 |
| 678 | 1.803E-14 | 0.032167673 | 0.967832327 |
| 679 | 1.7921E-14 | 0.031974667 | 0.968025333 |
| 680 | 1.7814E-14 | 0.031782819 | 0.968217181 |
| 681 | 1.7708E-14 | 0.031592122 | 0.968407878 |
| 682 | 1.7604E-14 | 0.03140257 | 0.96859743 |
| 683 | 1.75E-14 | 0.031214154 | 0.968785846 |

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|---|---|---|---|
| 684 | 1.7398E-14 | 0.031026869 | 0.968973131 |
| 685 | 1.7297E-14 | 0.030840708 | 0.969159292 |
| 686 | 1.7197E-14 | 0.030655664 | 0.969344336 |
| 687 | 1.7099E-14 | 0.03047173 | 0.96952827 |
| 688 | 1.7001E-14 | 0.0302889 | 0.9697111 |
| 689 | 1.6905E-14 | 0.030107166 | 0.969892834 |
| 690 | 1.681E-14 | 0.029926523 | 0.970073477 |
| 691 | 1.6716E-14 | 0.029746964 | 0.970253036 |
| 692 | 1.6623E-14 | 0.029568482 | 0.970431518 |
| 693 | 1.6531E-14 | 0.029391071 | 0.970608929 |
| 694 | 1.644E-14 | 0.029214725 | 0.970785275 |
| 695 | 1.635E-14 | 0.029039437 | 0.970960563 |
| 696 | 1.6262E-14 | 0.0288652 | 0.9711348 |
| 697 | 1.6174E-14 | 0.028692009 | 0.971307991 |
| 698 | 1.6087E-14 | 0.028519857 | 0.971480143 |
| 699 | 1.6001E-14 | 0.028348738 | 0.971651262 |
| 700 | 1.5916E-14 | 0.028178645 | 0.971821355 |
| 701 | 1.5832E-14 | 0.028009573 | 0.971990427 |
| 702 | 1.575E-14 | 0.027841516 | 0.972158484 |
| 703 | 1.5668E-14 | 0.027674467 | 0.972325533 |
| 704 | 1.5586E-14 | 0.02750842 | 0.97249158 |
| 705 | 1.5506E-14 | 0.027343369 | 0.972656631 |
| 706 | 1.5427E-14 | 0.027179309 | 0.972820691 |
| 707 | 1.5349E-14 | 0.027016233 | 0.972983767 |
| 708 | 1.5271E-14 | 0.026854136 | 0.973145864 |
| 709 | 1.5194E-14 | 0.026693011 | 0.973306989 |
| 710 | 1.5119E-14 | 0.026532853 | 0.973467147 |
| 711 | 1.5044E-14 | 0.026373656 | 0.973626344 |
| 712 | 1.4969E-14 | 0.026215414 | 0.973784586 |
| 713 | 1.4896E-14 | 0.026058122 | 0.973941878 |
| 714 | 1.4823E-14 | 0.025901773 | 0.974098227 |
| 715 | 1.4752E-14 | 0.025746362 | 0.974253638 |
| 716 | 1.4681E-14 | 0.025591884 | 0.974408116 |
| 717 | 1.461E-14 | 0.025438333 | 0.974561667 |
| 718 | 1.4541E-14 | 0.025285703 | 0.974714297 |
| 719 | 1.4472E-14 | 0.025133988 | 0.974866012 |
| 720 | 1.4404E-14 | 0.024983185 | 0.975016815 |
| 721 | 1.4337E-14 | 0.024833285 | 0.975166715 |
| 722 | 1.427E-14 | 0.024684286 | 0.975315714 |
| 723 | 1.4204E-14 | 0.02453618 | 0.97546382 |
| 724 | 1.4139E-14 | 0.024388963 | 0.975611037 |
| 725 | 1.4075E-14 | 0.024242629 | 0.975757371 |
| 726 | 1.4011E-14 | 0.024097173 | 0.975902827 |

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|---|---|---|---|
| 727 | 1.3948E-14 | 0.02395259 | 0.97604741 |
| 728 | 1.3885E-14 | 0.023808875 | 0.976191125 |
| 729 | 1.3823E-14 | 0.023666022 | 0.976333978 |
| 730 | 1.3762E-14 | 0.023524025 | 0.976475975 |
| 731 | 1.3702E-14 | 0.023382881 | 0.976617119 |
| 732 | 1.3642E-14 | 0.023242584 | 0.976757416 |
| 733 | 1.3582E-14 | 0.023103128 | 0.976896872 |
| 734 | 1.3524E-14 | 0.02296451 | 0.97703549 |
| 735 | 1.3466E-14 | 0.022826723 | 0.977173277 |
| 736 | 1.3408E-14 | 0.022689762 | 0.977310238 |
| 737 | 1.3351E-14 | 0.022553624 | 0.977446376 |
| 738 | 1.3295E-14 | 0.022418302 | 0.977581698 |
| 739 | 1.3239E-14 | 0.022283792 | 0.977716208 |
| 740 | 1.3184E-14 | 0.022150089 | 0.977849911 |
| 741 | 1.313E-14 | 0.022017189 | 0.977982811 |
| 742 | 1.3075E-14 | 0.021885086 | 0.978114914 |
| 743 | 1.3022E-14 | 0.021753775 | 0.978246225 |
| 744 | 1.2969E-14 | 0.021623253 | 0.978376747 |
| 745 | 1.2917E-14 | 0.021493513 | 0.978506487 |
| 746 | 1.2865E-14 | 0.021364552 | 0.978635448 |
| 747 | 1.2813E-14 | 0.021236365 | 0.978763635 |
| 748 | 1.2762E-14 | 0.021108946 | 0.978891054 |
| 749 | 1.2712E-14 | 0.020982293 | 0.979017707 |
| 750 | 1.2662E-14 | 0.020856399 | 0.979143601 |
| 751 | 1.2613E-14 | 0.020731261 | 0.979268739 |
| 752 | 1.2564E-14 | 0.020606873 | 0.979393127 |
| 753 | 1.2515E-14 | 0.020483232 | 0.979516768 |
| 754 | 1.2467E-14 | 0.020360332 | 0.979639668 |
| 755 | 1.242E-14 | 0.02023817 | 0.97976183 |
| 756 | 1.2373E-14 | 0.020116741 | 0.979883259 |
| 757 | 1.2326E-14 | 0.019996041 | 0.980003959 |
| 758 | 1.228E-14 | 0.019876065 | 0.980123935 |
| 759 | 1.2235E-14 | 0.019756808 | 0.980243192 |
| 760 | 1.2189E-14 | 0.019638268 | 0.980361732 |
| 761 | 1.2145E-14 | 0.019520438 | 0.980479562 |
| 762 | 1.21E-14 | 0.019403315 | 0.980596685 |
| 763 | 1.2056E-14 | 0.019286895 | 0.980713105 |
| 764 | 1.2013E-14 | 0.019171174 | 0.980828826 |
| 765 | 1.197E-14 | 0.019056147 | 0.980943853 |
| 766 | 1.1927E-14 | 0.01894181 | 0.98105819 |
| 767 | 1.1885E-14 | 0.018828159 | 0.981171841 |
| 768 | 1.1843E-14 | 0.01871519 | 0.98128481 |
| 769 | 1.1802E-14 | 0.018602899 | 0.981397101 |

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|---|---|---|---|
| 770 | 1.1761E-14 | 0.018491282 | 0.981508718 |
| 771 | 1.172E-14 | 0.018380334 | 0.981619666 |
| 772 | 1.168E-14 | 0.018270052 | 0.981729948 |
| 773 | 1.164E-14 | 0.018160432 | 0.981839568 |
| 774 | 1.16E-14 | 0.018051469 | 0.981948531 |
| 775 | 1.1561E-14 | 0.01794316 | 0.98205684 |
| 776 | 1.1522E-14 | 0.017835501 | 0.982164499 |
| 777 | 1.1484E-14 | 0.017728488 | 0.982271512 |
| 778 | 1.1446E-14 | 0.017622117 | 0.982377883 |
| 779 | 1.1408E-14 | 0.017516385 | 0.982483615 |
| 780 | 1.1371E-14 | 0.017411286 | 0.982588714 |
| 781 | 1.1334E-14 | 0.017306819 | 0.982693181 |
| 782 | 1.1297E-14 | 0.017202978 | 0.982797022 |
| 783 | 1.1261E-14 | 0.01709976 | 0.98290024 |
| 784 | 1.1225E-14 | 0.016997161 | 0.983002839 |
| 785 | 1.1189E-14 | 0.016895178 | 0.983104822 |
| 786 | 1.1154E-14 | 0.016793807 | 0.983206193 |
| 787 | 1.1119E-14 | 0.016693044 | 0.983306956 |
| 788 | 1.1084E-14 | 0.016592886 | 0.983407114 |
| 789 | 1.105E-14 | 0.016493329 | 0.983506671 |
| 790 | 1.1015E-14 | 0.016394369 | 0.983605631 |
| 791 | 1.0982E-14 | 0.016296003 | 0.983703997 |
| 792 | 1.0948E-14 | 0.016198227 | 0.983801773 |
| 793 | 1.0915E-14 | 0.016101037 | 0.983898963 |
| 794 | 1.0882E-14 | 0.016004431 | 0.983995569 |
| 795 | 1.085E-14 | 0.015908405 | 0.984091595 |
| 796 | 1.0817E-14 | 0.015812954 | 0.984187046 |
| 797 | 1.0785E-14 | 0.015718076 | 0.984281924 |
| 798 | 1.0754E-14 | 0.015623768 | 0.984376232 |
| 799 | 1.0722E-14 | 0.015530025 | 0.984469975 |
| 800 | 1.0691E-14 | 0.015436845 | 0.984563155 |

$$dt = 20. t\ increment\ is\ 20$$

| Time/Day | Susceptible | Infected | Removed |
|---|---|---|---|
| 0 | 0.99999998 | 1.82927E-08 | 0 |
| 20 | 0.99999991 | 8.45122E-08 | 2.19512E-09 |
| 40 | 0.9999996 | 3.90446E-07 | 1.23366E-08 |
| 60 | 0.99999814 | 1.80386E-06 | 5.91901E-08 |
| 80 | 0.99999139 | 8.33383E-06 | 2.75654E-07 |
| 100 | 0.99996022 | 3.8502E-05 | 1.27571E-06 |
| 120 | 0.99981623 | 0.000177874 | 5.89595E-06 |
| 140 | 0.99915111 | 0.000821654 | 2.72408E-05 |

| | | | |
|---|---|---|---|
| 160 | 0.99608073 | 0.003793431 | 0.000125839 |
| 180 | 0.9819489 | 0.017470047 | 0.000581051 |
| 200 | 0.91779035 | 0.079532197 | 0.002677457 |
| 220 | 0.64479323 | 0.342985453 | 0.01222132 |
| 240 | -0.1823253 | 1.128945766 | 0.053379575 |
| 260 | 0.58749914 | 0.223647798 | 0.188853067 |
| 280 | 0.09608973 | 0.688219463 | 0.215690802 |
| 300 | -0.1512396 | 0.852962415 | 0.298277138 |
| 320 | 0.33122663 | 0.268140738 | 0.400632628 |
| 340 | -0.0009428 | 0.568133274 | 0.432809516 |
| 360 | 0.00106047 | 0.497954023 | 0.500985509 |
| 380 | -0.0009145 | 0.4401745 | 0.560739992 |
| 400 | 0.00059099 | 0.385848075 | 0.613560932 |
| 420 | -0.0002619 | 0.340399151 | 0.659862701 |
| 440 | 7.151E-05 | 0.299217891 | 0.700710599 |
| 460 | -8.515E-06 | 0.263391769 | 0.736616746 |
| 480 | -1.27E-07 | 0.231776369 | 0.768223758 |
| 500 | -1.691E-08 | 0.203963094 | 0.796036923 |
| 520 | -4.011E-09 | 0.17948751 | 0.820512494 |
| 540 | -1.318E-09 | 0.157949006 | 0.842050995 |
| 560 | -5.396E-10 | 0.138995125 | 0.861004876 |
| 580 | -2.591E-10 | 0.122315709 | 0.877684291 |
| 600 | -1.406E-10 | 0.107637824 | 0.892362176 |
| 620 | -8.398E-11 | 0.094721285 | 0.905278715 |
| 640 | -5.423E-11 | 0.083354731 | 0.916645269 |
| 660 | -3.732E-11 | 0.073352163 | 0.926647837 |
| 680 | -2.708E-11 | 0.064549904 | 0.935450096 |
| 700 | -2.055E-11 | 0.056803915 | 0.943196085 |
| 720 | -1.618E-11 | 0.049987445 | 0.950012555 |
| 740 | -1.316E-11 | 0.043988952 | 0.956011048 |
| 760 | -1.099E-11 | 0.038710278 | 0.961289722 |
| 780 | -9.4E-12 | 0.034065044 | 0.965934956 |
| 800 | -8.203E-12 | 0.029977239 | 0.970022761 |

$$dt = 0.5. \, t \; increment \; is \; 0.5$$

| Time/Day | Susceptible | Infected | Removed |
|---|---|---|---|
| 0 | 0.99999998 | 1.82927E-08 | 0 |
| 0.5 | 0.99999998 | 1.99482E-08 | 5.48781E-11 |
| 1 | 0.99999998 | 2.17535E-08 | 1.14723E-10 |
| 1.5 | 0.99999998 | 2.37222E-08 | 1.79983E-10 |
| 2 | 0.99999997 | 2.5869E-08 | 2.5115E-10 |
| 2.5 | 0.99999997 | 2.82102E-08 | 3.28757E-10 |

| | | | |
|---|---|---|---|
| 3 | 0.99999997 | 3.07632E-08 | 4.13387E-10 |
| 3.5 | 0.99999997 | 3.35473E-08 | 5.05677E-10 |
| 4 | 0.99999996 | 3.65833E-08 | 6.06318E-10 |
| 4.5 | 0.99999996 | 3.98941E-08 | 7.16068E-10 |
| 5 | 0.99999996 | 4.35045E-08 | 8.35751E-10 |
| 5.5 | 0.99999995 | 4.74416E-08 | 9.66264E-10 |
| 6 | 0.99999995 | 5.17351E-08 | 1.10859E-09 |
| 6.5 | 0.99999994 | 5.64171E-08 | 1.26379E-09 |
| 7 | 0.99999994 | 6.15229E-08 | 1.43305E-09 |
| 7.5 | 0.99999993 | 6.70907E-08 | 1.61761E-09 |
| 8 | 0.99999993 | 7.31624E-08 | 1.81889E-09 |
| 8.5 | 0.99999992 | 7.97836E-08 | 2.03837E-09 |
| 9 | 0.99999991 | 8.7004E-08 | 2.27772E-09 |
| 9.5 | 0.9999999 | 9.48779E-08 | 2.53874E-09 |
| 10 | 0.99999989 | 1.03464E-07 | 2.82337E-09 |
| 10.5 | 0.99999988 | 1.12828E-07 | 3.13376E-09 |
| 11 | 0.99999987 | 1.23039E-07 | 3.47225E-09 |
| 11.5 | 0.99999986 | 1.34174E-07 | 3.84136E-09 |
| 12 | 0.99999985 | 1.46317E-07 | 4.24388E-09 |
| 12.5 | 0.99999984 | 1.59558E-07 | 4.68283E-09 |
| 13 | 0.99999982 | 1.73998E-07 | 5.16151E-09 |
| 13.5 | 0.9999998 | 1.89745E-07 | 5.6835E-09 |
| 14 | 0.99999979 | 2.06917E-07 | 6.25274E-09 |
| 14.5 | 0.99999977 | 2.25643E-07 | 6.87349E-09 |
| 15 | 0.99999975 | 2.46064E-07 | 7.55042E-09 |
| 15.5 | 0.99999972 | 2.68332E-07 | 8.28861E-09 |
| 16 | 0.9999997 | 2.92616E-07 | 9.09361E-09 |
| 16.5 | 0.99999967 | 3.19098E-07 | 9.97146E-09 |
| 17 | 0.99999964 | 3.47977E-07 | 1.09288E-08 |
| 17.5 | 0.99999961 | 3.79468E-07 | 1.19727E-08 |
| 18 | 0.99999957 | 4.1381E-07 | 1.31111E-08 |
| 18.5 | 0.99999953 | 4.5126E-07 | 1.43525E-08 |
| 19 | 0.99999949 | 4.92099E-07 | 1.57063E-08 |
| 19.5 | 0.99999945 | 5.36634E-07 | 1.71826E-08 |
| 20 | 0.9999994 | 5.852E-07 | 1.87925E-08 |
| 20.5 | 0.99999934 | 6.3816E-07 | 2.05481E-08 |
| 21 | 0.99999928 | 6.95913E-07 | 2.24626E-08 |
| 21.5 | 0.99999922 | 7.58894E-07 | 2.45503E-08 |
| 22 | 0.99999915 | 8.27573E-07 | 2.6827E-08 |
| 22.5 | 0.99999907 | 9.02469E-07 | 2.93097E-08 |
| 23 | 0.99999898 | 9.84142E-07 | 3.20171E-08 |
| 23.5 | 0.99999889 | 1.07321E-06 | 3.49696E-08 |
| 24 | 0.99999879 | 1.17033E-06 | 3.81892E-08 |

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|---|---|---|---|
| 24.5 | 0.99999868 | 1.27625E-06 | 4.17002E-08 |
| 25 | 0.99999856 | 1.39175E-06 | 4.55289E-08 |
| 25.5 | 0.99999843 | 1.5177E-06 | 4.97041E-08 |
| 26 | 0.99999829 | 1.65505E-06 | 5.42572E-08 |
| 26.5 | 0.99999814 | 1.80483E-06 | 5.92224E-08 |
| 27 | 0.99999797 | 1.96817E-06 | 6.46369E-08 |
| 27.5 | 0.99999778 | 2.14629E-06 | 7.05414E-08 |
| 28 | 0.99999758 | 2.34053E-06 | 7.69803E-08 |
| 28.5 | 0.99999736 | 2.55235E-06 | 8.40019E-08 |
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| 36.5 | 0.99998945 | 1.02081E-05 | 3.37787E-07 |
| 37 | 0.9999885 | 1.1132E-05 | 3.68411E-07 |
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| 38 | 0.99998632 | 1.3238E-05 | 4.38226E-07 |
| 38.5 | 0.99998509 | 1.4436E-05 | 4.7794E-07 |
| 39 | 0.99998374 | 1.57425E-05 | 5.21248E-07 |
| 39.5 | 0.99998226 | 1.71671E-05 | 5.68475E-07 |
| 40 | 0.99998066 | 1.87207E-05 | 6.19977E-07 |
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| 41.5 | 0.99997492 | 2.42771E-05 | 8.04171E-07 |
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| 42.5 | 0.99997017 | 2.887E-05 | 9.56425E-07 |
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| 44.5 | 0.99995782 | 4.08267E-05 | 1.35279E-06 |
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| 45.5 | 0.99994984 | 4.85504E-05 | 1.60884E-06 |

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| 46 | 0.9999453 | 5.2944E-05 | 1.75449E-06 |
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| 54 | 0.99978126 | 0.000211719 | 7.01846E-06 |
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| 58.5 | 0.99952307 | 0.00046162 | 1.53053E-05 |
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| 65 | 0.99853046 | 0.00142236 | 4.71837E-05 |
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| 66.5 | 0.99809505 | 0.001843771 | 6.11765E-05 |
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| 67.5 | 0.99773542 | 0.002191846 | 7.27387E-05 |
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| 70 | 0.99651165 | 0.00337624 | 0.000112112 |
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| 71 | 0.99585423 | 0.004012483 | 0.000133283 |
| 71.5 | 0.99548062 | 0.004374057 | 0.000145321 |
| 72 | 0.9950735 | 0.004768061 | 0.000158443 |
| 72.5 | 0.99462988 | 0.005197374 | 0.000172747 |
| 73 | 0.99414653 | 0.005665127 | 0.000188339 |
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| 74 | 0.99304629 | 0.006729849 | 0.000223859 |
| 74.5 | 0.99242143 | 0.007334525 | 0.000244048 |
| 75 | 0.99174085 | 0.007993102 | 0.000266052 |
| 75.5 | 0.99099966 | 0.008710305 | 0.000290031 |
| 76 | 0.99019258 | 0.009491258 | 0.000316162 |
| 76.5 | 0.98931385 | 0.010341513 | 0.000344636 |
| 77 | 0.98835725 | 0.011267087 | 0.00037566 |
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| 78 | 0.98618294 | 0.013370778 | 0.000446285 |
| 78.5 | 0.98495004 | 0.01456356 | 0.000486397 |
| 79 | 0.98360884 | 0.015861068 | 0.000530088 |
| 79.5 | 0.98215014 | 0.017272187 | 0.000577671 |
| 80 | 0.98056402 | 0.018806493 | 0.000629488 |
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| 81 | 0.97696595 | 0.022286721 | 0.00074733 |
| 81.5 | 0.97493014 | 0.024255671 | 0.00081419 |
| 82 | 0.97271909 | 0.026393953 | 0.000886957 |
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| 83 | 0.96771339 | 0.031234323 | 0.001052285 |
| 83.5 | 0.96488727 | 0.033966739 | 0.001145988 |
| 84 | 0.9618229 | 0.036929215 | 0.001247888 |
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| 85 | 0.95490454 | 0.043616367 | 0.001479094 |
| 85.5 | 0.95101031 | 0.047379743 | 0.001609943 |
| 86 | 0.94679733 | 0.051450585 | 0.001752083 |
| 86.5 | 0.94224264 | 0.055850924 | 0.001906434 |
| 87 | 0.93732219 | 0.060603821 | 0.002073987 |
| 87.5 | 0.9320109 | 0.065733305 | 0.002255799 |
| 88 | 0.9262827 | 0.071264304 | 0.002452999 |
| 88.5 | 0.92011068 | 0.077222529 | 0.002666792 |

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| 89 | 0.9134672 | 0.083634343 | 0.002898459 |
| 89.5 | 0.90632406 | 0.090526581 | 0.003149362 |
| 90 | 0.89865272 | 0.097926341 | 0.003420942 |
| 90.5 | 0.89042455 | 0.105860728 | 0.003714721 |
| 91 | 0.88161115 | 0.114356548 | 0.004032303 |
| 91.5 | 0.87218466 | 0.123439963 | 0.004375373 |
| 92 | 0.86211823 | 0.133136081 | 0.004745693 |
| 92.5 | 0.85138639 | 0.143468513 | 0.005145101 |
| 93 | 0.83996563 | 0.154458865 | 0.005575506 |
| 93.5 | 0.82783493 | 0.166126191 | 0.006038883 |
| 94 | 0.81497633 | 0.178486406 | 0.006537262 |
| 94.5 | 0.80137562 | 0.191551663 | 0.007072721 |
| 95 | 0.78702291 | 0.205329709 | 0.007647376 |
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| 96 | 0.75604789 | 0.235029276 | 0.008922835 |
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| 97 | 0.72208441 | 0.26753485 | 0.010380738 |
| 97.5 | 0.70402183 | 0.284794832 | 0.011183343 |
| 98 | 0.68527491 | 0.302687364 | 0.012037727 |
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| 99 | 0.64588455 | 0.340206142 | 0.013909309 |
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| 101 | 0.56105444 | 0.420597395 | 0.01834817 |
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| 102 | 0.51674589 | 0.46231995 | 0.020934161 |
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| 103 | 0.47206832 | 0.504160744 | 0.023770932 |
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| 104 | 0.42773932 | 0.545402559 | 0.026858117 |
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| 105 | 0.38446063 | 0.585348308 | 0.030191062 |
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| 106 | 0.34287381 | 0.623365183 | 0.033761008 |
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| 107 | 0.30352316 | 0.6589213 | 0.037555542 |
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| 108 | 0.26683028 | 0.691610477 | 0.041559239 |
| 108.5 | 0.24957555 | 0.706790381 | 0.04363407 |
| 109 | 0.23308237 | 0.721163185 | 0.045754441 |
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| 110.5 | 0.18828647 | 0.759349122 | 0.052364412 |
| 111 | 0.17491829 | 0.770439252 | 0.054642459 |
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| 112 | 0.15046897 | 0.790235071 | 0.059295962 |
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| 113 | 0.12894106 | 0.806995329 | 0.064063613 |
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| 114 | 0.11013545 | 0.820937043 | 0.06892751 |
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| 115 | 0.09381991 | 0.832308985 | 0.073871105 |
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| 116 | 0.07974693 | 0.841373698 | 0.078879371 |
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| 117 | 0.06766757 | 0.848393567 | 0.083938862 |
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| 118 | 0.05734149 | 0.853620819 | 0.089037691 |
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| 119 | 0.04854357 | 0.85729097 | 0.094165463 |
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| 120 | 0.04106777 | 0.859619062 | 0.099313167 |
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| 121 | 0.03472893 | 0.860798025 | 0.104473047 |
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| 135 | 0.0034471 | 0.820936672 | 0.175616224 |
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| 136 | 0.00293888 | 0.816525866 | 0.18053525 |
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| 137 | 0.00250784 | 0.812064431 | 0.185427729 |
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| 139 | 0.00183112 | 0.803036899 | 0.195131984 |
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| 141 | 0.00134191 | 0.793930593 | 0.204727494 |
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| 142 | 0.00115035 | 0.789365424 | 0.209484231 |
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| 143 | 0.00098704 | 0.784799391 | 0.214213574 |
| 143.5 | 0.00091461 | 0.782517421 | 0.216567972 |
| 144 | 0.00084769 | 0.780236786 | 0.218915524 |
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| 145 | 0.00072869 | 0.775681205 | 0.223590108 |
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| 146 | 0.00062697 | 0.771135661 | 0.228237373 |
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| 151 | 0.0002997 | 0.748633685 | 0.25106661 |
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| 161 | 7.3205E-05 | 0.705191671 | 0.294735125 |
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| 163.5 | 5.216E-05 | 0.694697983 | 0.305249857 |
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| 168.5 | 2.6897E-05 | 0.674161039 | 0.325812064 |
| 169 | 2.5201E-05 | 0.672140252 | 0.327834547 |
| 169.5 | 2.3617E-05 | 0.670125415 | 0.329850968 |
| 170 | 2.2138E-05 | 0.668116518 | 0.331861344 |
| 170.5 | 2.0755E-05 | 0.666113552 | 0.333865694 |
| 171 | 1.9462E-05 | 0.664116504 | 0.335864034 |
| 171.5 | 1.8254E-05 | 0.662125363 | 0.337856384 |
| 172 | 1.7124E-05 | 0.660140117 | 0.33984276 |
| 172.5 | 1.6067E-05 | 0.658160753 | 0.34182318 |
| 173 | 1.5078E-05 | 0.65618726 | 0.343797662 |
| 173.5 | 1.4153E-05 | 0.654219623 | 0.345766224 |
| 174 | 1.3287E-05 | 0.65225783 | 0.347728883 |
| 174.5 | 1.2477E-05 | 0.650301867 | 0.349685657 |

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| 175 | 1.1718E-05 | 0.64835172 | 0.351636562 |
| 175.5 | 1.1008E-05 | 0.646407375 | 0.353581617 |
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| 176.5 | 9.7193E-06 | 0.642536035 | 0.357454246 |
| 177 | 9.1354E-06 | 0.640609011 | 0.359381854 |
| 177.5 | 8.5882E-06 | 0.638687731 | 0.361303681 |
| 178 | 8.0753E-06 | 0.63677218 | 0.363219744 |
| 178.5 | 7.5945E-06 | 0.634862345 | 0.365130061 |
| 179 | 7.1437E-06 | 0.632958208 | 0.367034648 |
| 179.5 | 6.721E-06 | 0.631059757 | 0.368933522 |
| 180 | 6.3244E-06 | 0.629166974 | 0.370826702 |
| 180.5 | 5.9523E-06 | 0.627279845 | 0.372714203 |
| 181 | 5.6032E-06 | 0.625398355 | 0.374596042 |
| 181.5 | 5.2756E-06 | 0.623522487 | 0.376472237 |
| 182 | 4.968E-06 | 0.621652227 | 0.378342805 |
| 182.5 | 4.6793E-06 | 0.619787559 | 0.380207761 |
| 183 | 4.4081E-06 | 0.617928468 | 0.382067124 |
| 183.5 | 4.1534E-06 | 0.616074937 | 0.383920909 |
| 184 | 3.9142E-06 | 0.614226952 | 0.385769134 |
| 184.5 | 3.6894E-06 | 0.612384495 | 0.387611815 |
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| 185.5 | 3.2796E-06 | 0.608716109 | 0.391280611 |
| 186 | 3.0929E-06 | 0.606890147 | 0.39310676 |
| 186.5 | 2.9174E-06 | 0.605069653 | 0.39492743 |
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| 187.5 | 2.5971E-06 | 0.601445 | 0.398552403 |
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| 188.5 | 2.3136E-06 | 0.597842026 | 0.40215566 |
| 189 | 2.1843E-06 | 0.596048629 | 0.403949186 |
| 189.5 | 2.0626E-06 | 0.594260605 | 0.405737332 |
| 190 | 1.948E-06 | 0.592477938 | 0.407520114 |
| 190.5 | 1.8401E-06 | 0.590700612 | 0.409297548 |
| 191 | 1.7384E-06 | 0.588928612 | 0.41106965 |
| 191.5 | 1.6427E-06 | 0.587161922 | 0.412836436 |
| 192 | 1.5525E-06 | 0.585400526 | 0.414597921 |
| 192.5 | 1.4676E-06 | 0.58364441 | 0.416354123 |
| 193 | 1.3875E-06 | 0.581893556 | 0.418105056 |
| 193.5 | 1.312E-06 | 0.580147951 | 0.419850737 |
| 194 | 1.2408E-06 | 0.578407579 | 0.421591181 |
| 194.5 | 1.1737E-06 | 0.576672423 | 0.423326403 |
| 195 | 1.1104E-06 | 0.574942469 | 0.425056421 |
| 195.5 | 1.0507E-06 | 0.573217701 | 0.426781248 |
| 196 | 9.9441E-07 | 0.571498104 | 0.428500901 |

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| 198.5 | 7.5692E-07 | 0.56297715 | 0.437022093 |
| 199 | 7.1708E-07 | 0.561288258 | 0.438711025 |
| 199.5 | 6.7945E-07 | 0.559604431 | 0.44039489 |
| 200 | 6.439E-07 | 0.557925653 | 0.442073703 |
| 200.5 | 6.1031E-07 | 0.55625191 | 0.44374748 |
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| 203.5 | 4.4406E-07 | 0.546314335 | 0.453685221 |
| 204 | 4.2138E-07 | 0.544675414 | 0.455324164 |
| 204.5 | 3.9992E-07 | 0.54304141 | 0.456958191 |
| 205 | 3.7961E-07 | 0.541412306 | 0.458587315 |
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| 209 | 2.5164E-07 | 0.528554157 | 0.471445591 |
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| 210.5 | 2.1625E-07 | 0.523811462 | 0.476188322 |
| 211 | 2.0566E-07 | 0.522240038 | 0.477759756 |
| 211.5 | 1.9562E-07 | 0.520673328 | 0.479326477 |
| 212 | 1.8609E-07 | 0.519111317 | 0.480888497 |
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| 213 | 1.6849E-07 | 0.516001339 | 0.483998492 |
| 213.5 | 1.6036E-07 | 0.514453343 | 0.485546496 |
| 214 | 1.5265E-07 | 0.512909991 | 0.487089857 |
| 214.5 | 1.4533E-07 | 0.511371268 | 0.488628586 |
| 215 | 1.3838E-07 | 0.509837161 | 0.4901627 |
| 215.5 | 1.3178E-07 | 0.508307656 | 0.491692212 |
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| 216.5 | 1.1957E-07 | 0.505262397 | 0.494737483 |
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| 217.5 | 1.0856E-07 | 0.502235381 | 0.49776451 |

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| 218.5 | 9.8616E-08 | 0.499226499 | 0.500773402 |
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| 220.5 | 8.1525E-08 | 0.493262703 | 0.506737216 |
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| 221.5 | 7.4189E-08 | 0.490307573 | 0.509692353 |
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| 225.5 | 5.1173E-08 | 0.478663033 | 0.521336916 |
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| 229.5 | 3.5617E-08 | 0.467295038 | 0.532704927 |
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| 234 | 2.3942E-08 | 0.454828432 | 0.545171544 |
| 234.5 | 2.2924E-08 | 0.453463947 | 0.54653603 |
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| 241 | 1.3187E-08 | 0.436093719 | 0.563906268 |
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| 246.5 | 8.4E-09 | 0.421916566 | 0.578083425 |
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| 256 | 3.9917E-09 | 0.398505749 | 0.601494247 |
| 256.5 | 3.843E-09 | 0.397310231 | 0.602689765 |
| 257 | 3.7002E-09 | 0.396118301 | 0.603881695 |
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| 260.5 | 2.848E-09 | 0.387874311 | 0.612125687 |

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| 261 | 2.7447E-09 | 0.386710688 | 0.613289309 |
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| 262.5 | 2.4584E-09 | 0.383240723 | 0.616759275 |
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| 264 | 2.2043E-09 | 0.379801894 | 0.620198104 |
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| 269.5 | 1.4899E-09 | 0.367454752 | 0.632545247 |
| 270 | 1.4387E-09 | 0.366352388 | 0.633647611 |
| 270.5 | 1.3894E-09 | 0.36525333 | 0.634746668 |
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| 271.5 | 1.2962E-09 | 0.363065098 | 0.636934901 |
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| 279 | 7.8063E-10 | 0.347065845 | 0.652934154 |
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| 280.5 | 7.0729E-10 | 0.343951614 | 0.656048385 |
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| 281.5 | 6.626E-10 | 0.341891 | 0.658108999 |
| 282 | 6.4141E-10 | 0.340865327 | 0.659134672 |

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| 284.5 | 5.4605E-10 | 0.335782933 | 0.664217066 |
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| 285.5 | 5.1235E-10 | 0.333771258 | 0.666228742 |
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| 290 | 3.865E-10 | 0.324866822 | 0.675133178 |
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| 291.5 | 3.5243E-10 | 0.321951783 | 0.678048216 |
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| 292.5 | 3.3157E-10 | 0.32002297 | 0.679977029 |
| 293 | 3.2164E-10 | 0.319062901 | 0.680937098 |
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| 294.5 | 2.9379E-10 | 0.316199941 | 0.683800058 |
| 295 | 2.851E-10 | 0.315251341 | 0.684748658 |
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| 298.5 | 2.3167E-10 | 0.308690349 | 0.691309651 |
| 299 | 2.2499E-10 | 0.307764278 | 0.692235722 |
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| 301 | 2.0029E-10 | 0.304087693 | 0.695912307 |
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| 302.5 | 1.8374E-10 | 0.301359105 | 0.698640894 |
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| 304 | 1.6868E-10 | 0.298655002 | 0.701344998 |
| 304.5 | 1.6397E-10 | 0.297759037 | 0.702240963 |
| 305 | 1.5941E-10 | 0.29686576 | 0.70313424 |
| 305.5 | 1.5498E-10 | 0.295975163 | 0.704024837 |
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| 308.5 | 1.3113E-10 | 0.290687407 | 0.709312593 |
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| 310 | 1.2076E-10 | 0.288079061 | 0.711920939 |
| 310.5 | 1.1751E-10 | 0.287214824 | 0.712785176 |
| 311 | 1.1435E-10 | 0.286353179 | 0.71364682 |
| 311.5 | 1.1129E-10 | 0.28549412 | 0.71450588 |
| 312 | 1.0832E-10 | 0.284637638 | 0.715362362 |
| 312.5 | 1.0544E-10 | 0.283783725 | 0.716216275 |
| 313 | 1.0264E-10 | 0.282932373 | 0.717067626 |
| 313.5 | 9.9923E-11 | 0.282083576 | 0.717916424 |
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| 314.5 | 9.4729E-11 | 0.280393614 | 0.719606386 |
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| 315.5 | 8.9834E-11 | 0.278713775 | 0.721286224 |
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| 319 | 7.4799E-11 | 0.272913201 | 0.727086799 |
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| 320 | 7.1036E-11 | 0.271278178 | 0.728721822 |
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| 322.5 | 6.2521E-11 | 0.267233347 | 0.732766653 |
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| 326 | 5.2457E-11 | 0.261671702 | 0.738328298 |
| 326.5 | 5.1173E-11 | 0.260886687 | 0.739113313 |
| 327 | 4.9925E-11 | 0.260104027 | 0.739895973 |
| 327.5 | 4.8711E-11 | 0.259323715 | 0.740676285 |
| 328 | 4.753E-11 | 0.258545743 | 0.741454257 |
| 328.5 | 4.6381E-11 | 0.257770106 | 0.742229894 |
| 329 | 4.5263E-11 | 0.256996796 | 0.743003204 |
| 329.5 | 4.4175E-11 | 0.256225806 | 0.743774194 |
| 330 | 4.3117E-11 | 0.255457128 | 0.744542872 |
| 330.5 | 4.2087E-11 | 0.254690757 | 0.745309243 |
| 331 | 4.1085E-11 | 0.253926684 | 0.746073316 |
| 331.5 | 4.0109E-11 | 0.253164904 | 0.746835096 |
| 332 | 3.916E-11 | 0.25240541 | 0.74759459 |
| 332.5 | 3.8236E-11 | 0.251648193 | 0.748351807 |
| 333 | 3.7336E-11 | 0.250893249 | 0.749106751 |
| 333.5 | 3.646E-11 | 0.250140569 | 0.749859431 |
| 334 | 3.5608E-11 | 0.249390147 | 0.750609853 |
| 334.5 | 3.4777E-11 | 0.248641977 | 0.751358023 |
| 335 | 3.3969E-11 | 0.247896051 | 0.752103949 |
| 335.5 | 3.3181E-11 | 0.247152363 | 0.752847637 |
| 336 | 3.2415E-11 | 0.246410906 | 0.753589094 |
| 336.5 | 3.1668E-11 | 0.245671673 | 0.754328327 |
| 337 | 3.094E-11 | 0.244934658 | 0.755065342 |
| 337.5 | 3.0232E-11 | 0.244199854 | 0.755800146 |
| 338 | 2.9542E-11 | 0.243467255 | 0.756532745 |
| 338.5 | 2.8869E-11 | 0.242736853 | 0.757263147 |
| 339 | 2.8214E-11 | 0.242008642 | 0.757991358 |
| 339.5 | 2.7575E-11 | 0.241282616 | 0.758717384 |
| 340 | 2.6953E-11 | 0.240558768 | 0.759441232 |
| 340.5 | 2.6347E-11 | 0.239837092 | 0.760162908 |
| 341 | 2.5756E-11 | 0.239117581 | 0.760882419 |
| 341.5 | 2.518E-11 | 0.238400228 | 0.761599772 |
| 342 | 2.4619E-11 | 0.237685027 | 0.762314973 |
| 342.5 | 2.4072E-11 | 0.236971972 | 0.763028028 |
| 343 | 2.3539E-11 | 0.236261056 | 0.763738944 |
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| 345.5 | 2.1065E-11 | 0.23273834 | 0.76726166 |
| 346 | 2.0607E-11 | 0.232040125 | 0.767959875 |
| 346.5 | 2.016E-11 | 0.231344005 | 0.768655995 |

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| 347 | 1.9724E-11 | 0.230649973 | 0.769350027 |
| 347.5 | 1.9298E-11 | 0.229958023 | 0.770041977 |
| 348 | 1.8883E-11 | 0.229268149 | 0.770731851 |
| 348.5 | 1.8479E-11 | 0.228580345 | 0.771419655 |
| 349 | 1.8084E-11 | 0.227894604 | 0.772105396 |
| 349.5 | 1.7698E-11 | 0.22721092 | 0.77278908 |
| 350 | 1.7322E-11 | 0.226529287 | 0.773470713 |
| 350.5 | 1.6956E-11 | 0.225849699 | 0.774150301 |
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| 355.5 | 1.3736E-11 | 0.219164949 | 0.780835051 |
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| 361.5 | 1.0758E-11 | 0.211403902 | 0.788596098 |
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| 362.5 | 1.0338E-11 | 0.210137381 | 0.789862619 |
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| 364.5 | 9.5526E-12 | 0.207627057 | 0.792372943 |
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| 368.5 | 8.1795E-12 | 0.202696017 | 0.797303983 |
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| 369.5 | 7.8729E-12 | 0.201481665 | 0.798518335 |
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| 398 | 2.9048E-12 | 0.169769456 | 0.830230544 |
| 398.5 | 2.8587E-12 | 0.169260147 | 0.830739853 |
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| 399.5 | 2.7691E-12 | 0.16824611 | 0.83175389 |
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| 402.5 | 2.5196E-12 | 0.165240302 | 0.834759698 |
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| 405 | 2.332E-12 | 0.162776525 | 0.837223475 |
| 405.5 | 2.2965E-12 | 0.162288195 | 0.837711805 |
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| 407 | 2.1938E-12 | 0.160831979 | 0.839168021 |
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| 410.5 | 1.9749E-12 | 0.157484753 | 0.842515247 |
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| 413.5 | 1.808E-12 | 0.154671203 | 0.845328797 |
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| 414.5 | 1.7561E-12 | 0.153744568 | 0.846255432 |
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| 417.5 | 1.611E-12 | 0.150997838 | 0.849002162 |
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| 419 | 1.544E-12 | 0.149642931 | 0.850357069 |
| 419.5 | 1.5224E-12 | 0.149194002 | 0.850805998 |
| 420 | 1.5011E-12 | 0.14874642 | 0.85125358 |
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| 421 | 1.4597E-12 | 0.14785528 | 0.85214472 |
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| 422 | 1.4197E-12 | 0.146969479 | 0.853030521 |
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| 423.5 | 1.3621E-12 | 0.145650718 | 0.854349282 |
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| 425 | 1.3074E-12 | 0.14434379 | 0.85565621 |
| 425.5 | 1.2898E-12 | 0.143910759 | 0.856089241 |
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| 427 | 1.2386E-12 | 0.142619444 | 0.857380556 |
| 427.5 | 1.222E-12 | 0.142191585 | 0.857808415 |
| 428 | 1.2058E-12 | 0.141765011 | 0.858234989 |
| 428.5 | 1.1898E-12 | 0.141339716 | 0.858660284 |
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| 431.5 | 1.0992E-12 | 0.138814605 | 0.861185395 |
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| 433 | 1.0571E-12 | 0.137569018 | 0.862430982 |
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| 445.5 | 7.736E-13 | 0.127614374 | 0.872385626 |
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| 446.5 | 7.5528E-13 | 0.126849837 | 0.873150163 |
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| 447.5 | 7.375E-13 | 0.126089879 | 0.873910121 |
| 448 | 7.288E-13 | 0.12571161 | 0.87428839 |
| 448.5 | 7.2023E-13 | 0.125334475 | 0.874665525 |
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| 451.5 | 6.7141E-13 | 0.123095307 | 0.876904693 |
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| 457 | 5.9226E-13 | 0.119093549 | 0.880906451 |
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| 460.5 | 5.48E-13 | 0.116614981 | 0.883385019 |
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| 469 | 4.5683E-13 | 0.110808235 | 0.889191765 |
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| 471.5 | 4.3379E-13 | 0.109156054 | 0.890843946 |
| 472 | 4.2936E-13 | 0.108828586 | 0.891171414 |
| 472.5 | 4.2499E-13 | 0.1085021 | 0.8914979 |
| 473 | 4.2068E-13 | 0.108176594 | 0.891823406 |
| 473.5 | 4.1643E-13 | 0.107852064 | 0.892147936 |
| 474 | 4.1223E-13 | 0.107528508 | 0.892471492 |
| 474.5 | 4.0808E-13 | 0.107205922 | 0.892794078 |
| 475 | 4.0399E-13 | 0.106884305 | 0.893115695 |
| 475.5 | 3.9996E-13 | 0.106563652 | 0.893436348 |

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| 476.5 | 3.9204E-13 | 0.105925229 | 0.894074771 |
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| 477.5 | 3.8432E-13 | 0.105290631 | 0.894709369 |
| 478 | 3.8054E-13 | 0.104974759 | 0.895025241 |
| 478.5 | 3.768E-13 | 0.104659835 | 0.895340165 |
| 479 | 3.7312E-13 | 0.104345855 | 0.895654145 |
| 479.5 | 3.6948E-13 | 0.104032818 | 0.895967182 |
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| 482 | 3.5196E-13 | 0.10248166 | 0.89751834 |
| 482.5 | 3.4858E-13 | 0.102174215 | 0.897825785 |
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| 513.5 | 2.0241E-13 | 0.084808841 | 0.915191159 |
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| 526.5 | 1.6582E-13 | 0.078435965 | 0.921564035 |
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| 527.5 | 1.634E-13 | 0.077966055 | 0.922033945 |
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| 550.5 | 1.1928E-13 | 0.067902043 | 0.932097957 |
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| 552.5 | 1.1629E-13 | 0.067090878 | 0.932909122 |
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| 560 | 1.0602E-13 | 0.064134372 | 0.935865628 |
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| 561.5 | 1.0413E-13 | 0.063558893 | 0.936441107 |

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| 574 | 9.019E-14 | 0.058959702 | 0.941040298 |
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| 583 | 8.1852E-14 | 0.055855781 | 0.944144219 |

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| 597.5 | 7.076E-14 | 0.051195021 | 0.948804979 |
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| 608 | 6.4168E-14 | 0.048064679 | 0.951935321 |
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| 610.5 | 6.2747E-14 | 0.047348022 | 0.952651978 |
| 611 | 6.247E-14 | 0.047205978 | 0.952794022 |
| 611.5 | 6.2194E-14 | 0.04706436 | 0.95293564 |
| 612 | 6.192E-14 | 0.046923167 | 0.953076833 |
| 612.5 | 6.1648E-14 | 0.046782397 | 0.953217603 |
| 613 | 6.1379E-14 | 0.04664205 | 0.95335795 |
| 613.5 | 6.1111E-14 | 0.046502124 | 0.953497876 |
| 614 | 6.0845E-14 | 0.046362617 | 0.953637383 |
| 614.5 | 6.0582E-14 | 0.04622353 | 0.95377647 |
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| 756.5 | 2.6465E-14 | 0.01969192 | 0.98030808 |
| 757 | 2.6416E-14 | 0.019632844 | 0.980367156 |
| 757.5 | 2.6367E-14 | 0.019573946 | 0.980426054 |
| 758 | 2.6319E-14 | 0.019515224 | 0.980484776 |
| 758.5 | 2.6271E-14 | 0.019456678 | 0.980543322 |
| 759 | 2.6223E-14 | 0.019398308 | 0.980601692 |
| 759.5 | 2.6176E-14 | 0.019340113 | 0.980659887 |
| 760 | 2.6129E-14 | 0.019282093 | 0.980717907 |
| 760.5 | 2.6081E-14 | 0.019224247 | 0.980775753 |
| 761 | 2.6035E-14 | 0.019166574 | 0.980833426 |
| 761.5 | 2.5988E-14 | 0.019109074 | 0.980890926 |
| 762 | 2.5941E-14 | 0.019051747 | 0.980948253 |
| 762.5 | 2.5895E-14 | 0.018994592 | 0.981005408 |
| 763 | 2.5849E-14 | 0.018937608 | 0.981062392 |
| 763.5 | 2.5803E-14 | 0.018880795 | 0.981119205 |
| 764 | 2.5758E-14 | 0.018824153 | 0.981175847 |
| 764.5 | 2.5713E-14 | 0.01876768 | 0.98123232 |
| 765 | 2.5667E-14 | 0.018711377 | 0.981288623 |
| 765.5 | 2.5623E-14 | 0.018655243 | 0.981344757 |
| 766 | 2.5578E-14 | 0.018599277 | 0.981400723 |
| 766.5 | 2.5533E-14 | 0.01854348 | 0.98145652 |
| 767 | 2.5489E-14 | 0.018487849 | 0.981512151 |
| 767.5 | 2.5445E-14 | 0.018432386 | 0.981567614 |
| 768 | 2.5401E-14 | 0.018377088 | 0.981622912 |
| 768.5 | 2.5358E-14 | 0.018321957 | 0.981678043 |
| 769 | 2.5314E-14 | 0.018266991 | 0.981733009 |
| 769.5 | 2.5271E-14 | 0.01821219 | 0.98178781 |
| 770 | 2.5228E-14 | 0.018157554 | 0.981842446 |
| 770.5 | 2.5185E-14 | 0.018103081 | 0.981896919 |
| 771 | 2.5142E-14 | 0.018048772 | 0.981951228 |
| 771.5 | 2.51E-14 | 0.017994626 | 0.982005374 |
| 772 | 2.5058E-14 | 0.017940642 | 0.982059358 |
| 772.5 | 2.5016E-14 | 0.01788682 | 0.98211318 |
| 773 | 2.4974E-14 | 0.017833159 | 0.982166841 |
| 773.5 | 2.4932E-14 | 0.01777966 | 0.98222034 |
| 774 | 2.4891E-14 | 0.017726321 | 0.982273679 |
| 774.5 | 2.485E-14 | 0.017673142 | 0.982326858 |
| 775 | 2.4808E-14 | 0.017620122 | 0.982379878 |
| 775.5 | 2.4768E-14 | 0.017567262 | 0.982432738 |
| 776 | 2.4727E-14 | 0.01751456 | 0.98248544 |
| 776.5 | 2.4686E-14 | 0.017462017 | 0.982537983 |

| | | | |
|---|---|---|---|
| 777 | 2.4646E-14 | 0.017409631 | 0.982590369 |
| 777.5 | 2.4606E-14 | 0.017357402 | 0.982642598 |
| 778 | 2.4566E-14 | 0.017305329 | 0.982694671 |
| 778.5 | 2.4526E-14 | 0.017253414 | 0.982746586 |
| 779 | 2.4487E-14 | 0.017201653 | 0.982798347 |
| 779.5 | 2.4447E-14 | 0.017150048 | 0.982849952 |
| 780 | 2.4408E-14 | 0.017098598 | 0.982901402 |
| 780.5 | 2.4369E-14 | 0.017047302 | 0.982952698 |
| 781 | 2.433E-14 | 0.01699616 | 0.98300384 |
| 781.5 | 2.4292E-14 | 0.016945172 | 0.983054828 |
| 782 | 2.4253E-14 | 0.016894336 | 0.983105664 |
| 782.5 | 2.4215E-14 | 0.016843653 | 0.983156347 |
| 783 | 2.4177E-14 | 0.016793122 | 0.983206878 |
| 783.5 | 2.4139E-14 | 0.016742743 | 0.983257257 |
| 784 | 2.4101E-14 | 0.016692515 | 0.983307485 |
| 784.5 | 2.4063E-14 | 0.016642437 | 0.983357563 |
| 785 | 2.4026E-14 | 0.01659251 | 0.98340749 |
| 785.5 | 2.3989E-14 | 0.016542733 | 0.983457267 |
| 786 | 2.3952E-14 | 0.016493104 | 0.983506896 |
| 786.5 | 2.3915E-14 | 0.016443625 | 0.983556375 |
| 787 | 2.3878E-14 | 0.016394294 | 0.983605706 |
| 787.5 | 2.3841E-14 | 0.016345111 | 0.983654889 |
| 788 | 2.3805E-14 | 0.016296076 | 0.983703924 |
| 788.5 | 2.3768E-14 | 0.016247188 | 0.983752812 |
| 789 | 2.3732E-14 | 0.016198446 | 0.983801554 |
| 789.5 | 2.3696E-14 | 0.016149851 | 0.983850149 |
| 790 | 2.3661E-14 | 0.016101401 | 0.983898599 |
| 790.5 | 2.3625E-14 | 0.016053097 | 0.983946903 |
| 791 | 2.359E-14 | 0.016004938 | 0.983995062 |
| 791.5 | 2.3554E-14 | 0.015956923 | 0.984043077 |
| 792 | 2.3519E-14 | 0.015909052 | 0.984090948 |
| 792.5 | 2.3484E-14 | 0.015861325 | 0.984138675 |
| 793 | 2.3449E-14 | 0.015813741 | 0.984186259 |
| 793.5 | 2.3415E-14 | 0.0157663 | 0.9842337 |
| 794 | 2.338E-14 | 0.015719001 | 0.984280999 |
| 794.5 | 2.3346E-14 | 0.015671844 | 0.984328156 |
| 795 | 2.3312E-14 | 0.015624828 | 0.984375172 |
| 795.5 | 2.3278E-14 | 0.015577954 | 0.984422046 |
| 796 | 2.3244E-14 | 0.01553122 | 0.98446878 |
| 796.5 | 2.321E-14 | 0.015484626 | 0.984515374 |
| 797 | 2.3176E-14 | 0.015438172 | 0.984561828 |
| 797.5 | 2.3143E-14 | 0.015391858 | 0.984608142 |
| 798 | 2.3109E-14 | 0.015345682 | 0.984654318 |

| | | | |
|---|---|---|---|
| 798.5 | 2.3076E-14 | 0.015299645 | 0.984700355 |
| 799 | 2.3043E-14 | 0.015253746 | 0.984746254 |
| 799.5 | 2.301E-14 | 0.015207985 | 0.984792015 |
| 800 | 2.2978E-14 | 0.015162361 | 0.984837639 |

$$dt = 10. t\ increment\ is\ 10$$

| Time/Day | Susceptible | Infected | Removed |
|---|---|---|---|
| 0 | 0.999999982 | 1.82927E-08 | 0 |
| 10 | 0.999999948 | 5.14024E-08 | 1.09756E-09 |
| 20 | 0.999999851 | 1.44441E-07 | 4.18171E-09 |
| 30 | 0.999999581 | 4.05879E-07 | 1.28482E-08 |
| 40 | 0.999998822 | 1.14052E-06 | 3.72009E-08 |
| 50 | 0.99999669 | 3.20486E-06 | 1.05632E-07 |
| 60 | 0.999990696 | 9.00562E-06 | 2.97923E-07 |
| 70 | 0.999973856 | 2.53056E-05 | 8.38261E-07 |
| 80 | 0.999926536 | 7.11076E-05 | 2.3566E-06 |
| 90 | 0.999793574 | 0.000199803 | 6.62306E-06 |
| 100 | 0.99942002 | 0.000561368 | 1.86112E-05 |
| 110 | 0.99837087 | 0.001576836 | 5.22933E-05 |
| 120 | 0.99542699 | 0.004426107 | 0.000146904 |
| 130 | 0.987188021 | 0.01239951 | 0.00041247 |
| 140 | 0.96429801 | 0.034545549 | 0.00115644 |
| 150 | 0.902004187 | 0.094766639 | 0.003229173 |
| 160 | 0.742156764 | 0.248928064 | 0.008915172 |
| 170 | 0.396686146 | 0.579462999 | 0.023850856 |
| 180 | -0.033161299 | 0.974542663 | 0.058618636 |
| 190 | 0.027271679 | 0.855637126 | 0.117091195 |
| 200 | -0.016364137 | 0.847934714 | 0.168429423 |
| 210 | 0.009583459 | 0.771111035 | 0.219305506 |
| 220 | -0.004235675 | 0.738663507 | 0.265572168 |
| 230 | 0.001615066 | 0.688492956 | 0.309891978 |
| 240 | -0.000464302 | 0.649262747 | 0.351201556 |
| 250 | 9.9417E-05 | 0.609743263 | 0.39015732 |
| 260 | -1.39402E-05 | 0.573272024 | 0.426741916 |
| 270 | 1.00396E-06 | 0.538860758 | 0.461138238 |
| 280 | -7.69997E-09 | 0.506530125 | 0.493469883 |
| 290 | -4.06471E-10 | 0.47613831 | 0.523861691 |
| 300 | -4.45579E-11 | 0.447570011 | 0.552429989 |
| 310 | -7.26491E-12 | 0.42071581 | 0.57928419 |
| 320 | -1.54932E-12 | 0.395472862 | 0.604527138 |
| 330 | -4.03546E-13 | 0.37174449 | 0.62825551 |
| 340 | -1.23016E-13 | 0.34943982 | 0.65056018 |

| | | | |
|---|---|---|---|
| 350 | -4.26309E-14 | 0.328473431 | 0.671526569 |
| 360 | -1.64451E-14 | 0.308765025 | 0.691234975 |
| 370 | -6.94984E-15 | 0.290239124 | 0.709760876 |
| 380 | -3.17784E-15 | 0.272824776 | 0.727175224 |
| 390 | -1.55656E-15 | 0.25645529 | 0.74354471 |
| 400 | -8.10078E-16 | 0.241067972 | 0.758932028 |
| 410 | -4.44897E-16 | 0.226603894 | 0.773396106 |
| 420 | -2.56372E-16 | 0.21300766 | 0.78699234 |
| 430 | -1.54253E-16 | 0.200227201 | 0.799772799 |
| 440 | -9.64969E-17 | 0.188213569 | 0.811786431 |
| 450 | -6.25339E-17 | 0.176920755 | 0.823079245 |
| 460 | -4.18451E-17 | 0.166305509 | 0.833694491 |
| 470 | -2.88316E-17 | 0.156327179 | 0.843672821 |
| 480 | -2.04032E-17 | 0.146947548 | 0.853052452 |
| 490 | -1.47966E-17 | 0.138130695 | 0.861869305 |
| 500 | -1.09746E-17 | 0.129842853 | 0.870157147 |
| 510 | -8.30987E-18 | 0.122052282 | 0.877947718 |
| 520 | -6.41324E-18 | 0.114729145 | 0.885270855 |
| 530 | -5.03732E-18 | 0.107845397 | 0.892154603 |
| 540 | -4.02144E-18 | 0.101374673 | 0.898625327 |
| 550 | -3.25909E-18 | 0.095292192 | 0.904707808 |
| 560 | -2.67834E-18 | 0.089574661 | 0.910425339 |
| 570 | -2.2297E-18 | 0.084200181 | 0.915799819 |
| 580 | -1.87863E-18 | 0.07914817 | 0.92085183 |
| 590 | -1.60058E-18 | 0.07439928 | 0.92560072 |
| 600 | -1.37789E-18 | 0.069935323 | 0.930064677 |
| 610 | -1.19769E-18 | 0.065739204 | 0.934260796 |
| 620 | -1.05046E-18 | 0.061794852 | 0.938205148 |
| 630 | -9.29071E-19 | 0.058087161 | 0.941912839 |
| 640 | -8.28153E-19 | 0.054601931 | 0.945398069 |
| 650 | -7.43594E-19 | 0.051325815 | 0.948674185 |
| 660 | -6.72224E-19 | 0.048246266 | 0.951753734 |
| 670 | -6.11576E-19 | 0.04535149 | 0.95464851 |
| 680 | -5.5971E-19 | 0.042630401 | 0.957369599 |
| 690 | -5.1509E-19 | 0.040072577 | 0.959927423 |
| 700 | -4.76491E-19 | 0.037668222 | 0.962331778 |
| 710 | -4.42928E-19 | 0.035408129 | 0.964591871 |
| 720 | -4.136E-19 | 0.033283641 | 0.966716359 |
| 730 | -3.87857E-19 | 0.031286623 | 0.968713377 |
| 740 | -3.65165E-19 | 0.029409425 | 0.970590575 |
| 750 | -3.45083E-19 | 0.02764486 | 0.97235514 |
| 760 | -3.27244E-19 | 0.025986168 | 0.974013832 |
| 770 | -3.11341E-19 | 0.024426998 | 0.975573002 |

| | | | |
|---|---|---|---|
| 780 | -2.9712E-19 | 0.022961378 | 0.977038622 |
| 790 | -2.84362E-19 | 0.021583696 | 0.978416304 |
| 800 | -2.72885E-19 | 0.020288674 | 0.979711326 |