

Class 02: Accumulated Change: Graphs

Calculus II

College of the Atlantic. January 13, 2025

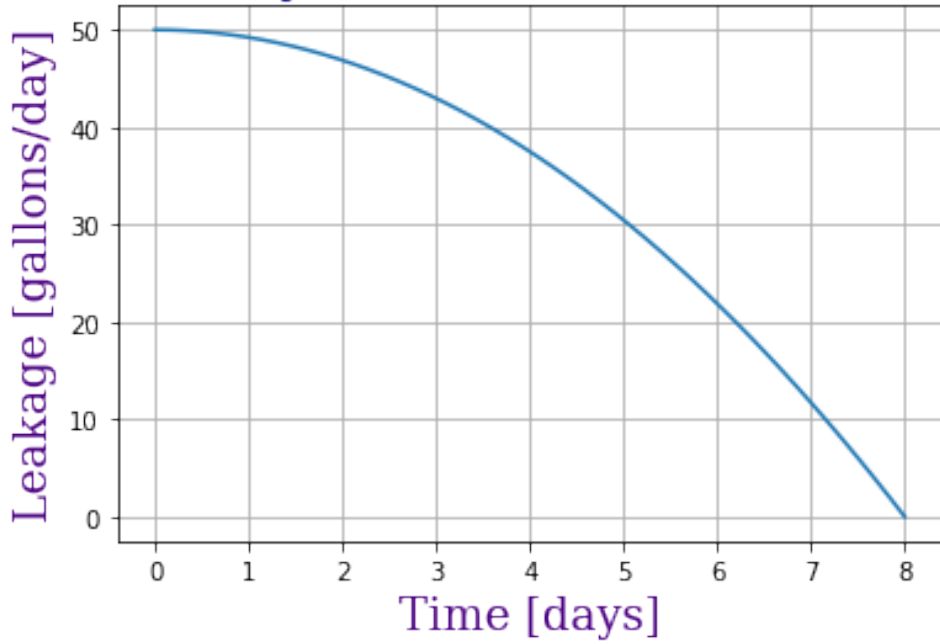


Figure 1: Image by Cakespy (Jessie Unicorn Moore) from <http://www.unicornlove.com/blog/2013/4/30/a-silk-soymilk-daydream.html>

Soy milk leaks from a storage tank in COA's dining hall. The rate of leakage is shown on the graph.

1. Come up with an upper estimate for the total amount of soy milk that has been released into the environment. Use $\Delta t = 2$.
2. Come up with a lower estimate for the total amount of soy milk that has been released into the environment. Use $\Delta t = 2$.
3. Represent these upper and lower estimates on the graph.
4. Show how you would represent upper and lower estimates using $\Delta t = 1$. Do not calculate numerical values for the estimates.
5. Suppose you needed to know how much soy milk was released into the environment to within 4 gallons. What Δt would you choose?

Soy Milk Disaster at TAB



Soy Milk Disaster at TAB

