Inlämningsuppgift 2 Oceanografi

* 1. Solution: Where F is the water flow and A is the area of the bucket, dh/dt is the rate of which the water level rises
  2. The differential equation from 1.1 can be solved by integrating it, which in turn gives us
  3. We can easily calculate the area of the bucket which equals A. As the only unknown is f (and c), we can just insert everything into the function and treat it as an equation which then becomes . If we don’t consider the +c, we get that F = 1570. I got to do some analysis of my units and handling of the additional constant