

Logistic Growth

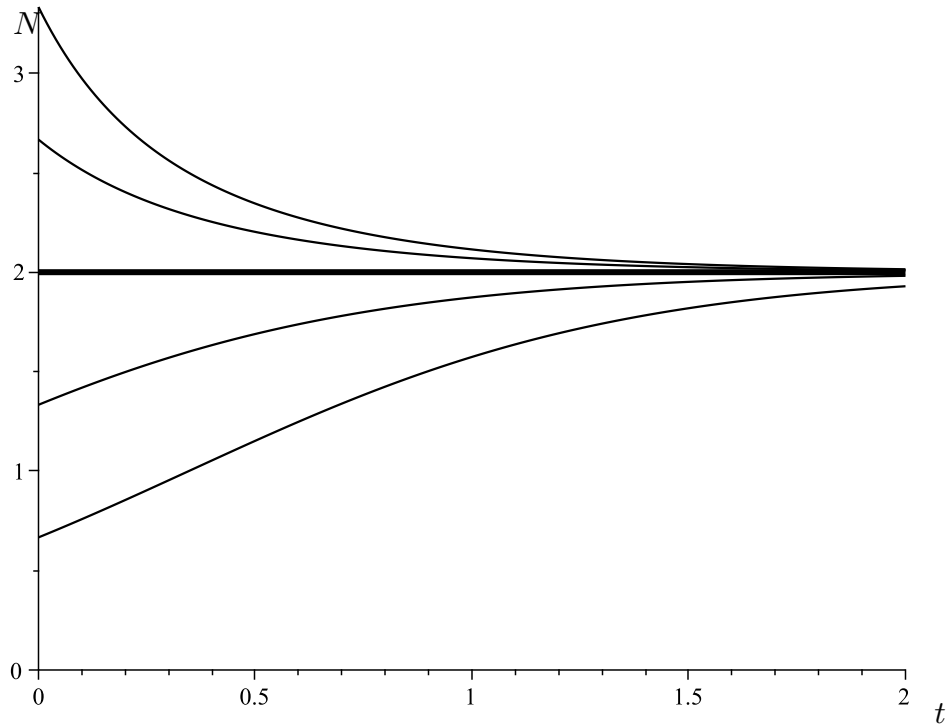
In class we found that the solution to the equation

$$\dot{N} = (K - N)N$$

is

$$N(t) = \frac{KN_0}{N_0 + (K - N_0)e^{-Kt}}. \quad (1)$$

Here are some integral curves of the solution.



Graphs of (1) with $K = 2$. The thick line is the solution $N(t) \equiv K$.

