

## Lab 1 Expectations

Submit plots: 2, 3, 5, 8

1. Show that  $k = .39$  using the given equations
2. Use  $d_{field}$  and  $k = .39$  to find the number of hours dead, and the time of death, and submit the zoomed in plot
3. Approximate  $T(1)$  and compare it to the given value, and submit the plot
4. Find the general solution, the values of  $c$  and  $k$ , and present the full solution
5. Using the new  $k$  value, find the hours dead, the time of death, and submit the zoomed in plot
6. Use the equation to calculate hours dead and the time of death
7. Explain in a few sentences why the intern is wrong
8. Considering the change in temperature, find the hours dead and the time of death, and submit the plot
9. Approximate  $k$  using the given equations