

Guided Project 3B: Cooling coffee

Topics and skills: Derivatives, exponential functions

Imagine pouring a cup of hot coffee and letting it cool at room temperature. How long does the temperature of the coffee decrease to zero? How long does it take until the coffee is cool enough to drink? When should you add ice cubes of cold milk to the coffee to maximize the cooling as much as possible?

A fairly accurate model to describe the temperature changes in a conducting object is Newton's Law of Cooling. Suppose that at time $t \geq 0$ an object has a temperature of $T(t)$. The Law of Cooling says that the rate at which the temperature of the object increases or decreases is given by

$$\frac{dT}{dt} = -k(T - A), \quad (1)$$

where A is the ambient (surrounding) temperature and $k > 0$ is a constant called the *conductivity* (which is a property of the cooling object). Newton's Law of Cooling assumes that the cooling body has a uniform temperature throughout its interior. This is not strictly accurate, as a cooling body loses heat through its surface.

1. Explain to words what equation (1) means. Specifically, in terms of T and A , when is $\frac{dT}{dt} > 0$ and when is

$$\frac{dT}{dt} < 0 \text{ for the case of hot coffee cooling to room temperature. Which case do you expect to see?}$$

2. Verify by substitution that the solution to equation (1) subject to the initial condition $T(0) = T_0$ is

$$T(t) = A + (T_0 - A)e^{-kt}. \quad (2)$$

3. Before graphing the temperature function, use equation (2) to evaluate $T(0)$ and $\lim_{t \rightarrow \infty} T(t)$. Are these the values you expect?

4. Consider the case of a cup of hot coffee cooling with an ambient room temperature of $A = 68^\circ \text{F}$ and the initial temperature of the coffee is $T_0 = 200^\circ \text{F}$. Use a graphing utility to plot the temperature function for $k = 0.1, 0.2, 0.3$, and 0.45 . Comment on how the curves change with k . Do larger values of k produce faster or slower rates of temperature change?

5. For the values of k and A in Step 4, estimate the value of t that describes the case in which the coffee cools to 68°F in 10 minutes.

Here is an interesting question. Suppose you want to cool your hot coffee to 68°F as quickly as possible. Suppose also that you have one ounce of cold milk with a temperature of 40°F that you can add to the cooling coffee at any time. When should you add the milk to cool the coffee to 68°F as quickly as possible?

6. We need to make an assumption about the effect of cold milk on the temperature of the coffee. A reasonable assumption is that when milk is added to coffee, the temperature of the coffee immediately decreases to the average of the coffee temperature and the milk temperature, where the average is weighted by the volumes. So if we add 1 ounce of milk with temperature T_1 to 5 ounces of coffee with temperature T , the temperature of the mixture will be

$$T_m = \frac{1 \cdot T_1 + 5 \cdot T}{1 + 5} = \frac{T_1 + 5T}{6}. \quad (3)$$

For example, if we add one ounce of 40°F milk to eight ounces of 100°F coffee, the coffee temperature is lowered immediately to about 100°F . Assume the coffee is allowed to cool for t_1 minutes, where t_1 will be determined. Use equation (2) and the value of T found in Step 5 to determine the temperature of the coffee at $t = t_1$, call it T^* .

7. Use assumption (3) to determine the temperature of the coffee when one ounce of 40°F milk is added to eight ounces of coffee, which has a temperature of T^* . Call this new coffee temperature T_{m1} .

8. Use equation (2) to show that the temperature of the coffee for $t > t_1$ using T_{m1} as the initial temperature is

$$T(t) = A + (T_{m1} - A)e^{-k(t-t_1)},$$

where t is now measured in minutes after t_1 .

9. We now solve for the value of t such that $T(t) = 68$ and call this value t_2 . Remember that t_1 measures time after the milk is added. Show that

$$t_2 = -\frac{1}{k} \ln \left(\frac{68 - A}{T_{m1} - A} \right).$$

10. Notice that as t_1 increases, t_2 decreases. In fact, show that if $t_1 > 0.45$ (approximately), then $t_2 < 0$ and the solutions are not meaningful. Therefore, we consider t_1 in the interval $0 \leq t_1 \leq 0.45$.

11. The total time needed to cool the temperature to 68°F is $t = t_1 + t_2$. Notice that the total time t depends on t_1 , the time at which the milk is added. Therefore, the last step is to graph the total time $t = t_1 + t_2$ as a function of t_1 for $0 \leq t_1 \leq 0.45$. Where does this function have a minimum on this interval? This is the time at which the milk should be added to give the quickest cooling.

12. Interpret the solution. What is the value of t_1 in the optimal solution? What is the temperature of the coffee/milk mixture immediately after the milk is added?

Guided Project 3cooling Coffee

Marc McCutcheon



Guided Project 3cooling Coffee:

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