

Here is an extra problem on Newton's law of cooling.

1. A dead body is found in a room (in a Mansion) at 2:17pm. The temperature of the body is 78 degrees and the temperature of the room is 68 degrees. A half an hour later, the temperature of the body is 76 degrees. The police think it was murder and have two suspects for the crime: the butler and the chef. The Butler was at church from 10 - 11 (with lots of witnesses seeing him there). The Chef was at the park from 11 - 12 (again, with lots of witnesses). Who do you think killed the person. Why? (Obviously, the important part of this problem is the "why".) Be clear in your solution.