(1) If $f$ is continuous on $[a, b]$, then
   (a) there must be numbers $m$ and $M$ such that $m \leq f(x) \leq M$, for $x \in [a, b]$
   (b) there must be local extreme values, but there may or may not be an absolute maximum or absolute minimum value for the function.
   (c) any absolute max or min would be at either the endpoints of the interval, or at places in the domain where $f'(x) = 0$

(2) On a toll road a driver takes a time stamped toll-card from the starting booth and drives directly to the end of the toll section. After paying the required toll, the driver is surprised to receive a speeding ticket along with the toll receipt. Which of the following best describes the situation?
   (a) The booth attendant does not have enough information to prove that the driver was speeding.
   (b) The booth attendant can prove that the driver was speeding during his trip.
   (c) The driver will get a ticket for a lower speed than his actual maximum speed.
   (d) Both (b) and (c).
   Be prepared to justify your answer.