11. (9 points) Let $s(t)$ give the position of an object along a straight line at time t and let $v(t)$ denote its instantaneous velocity at time t .
(a) Give the definition of the average velocity of the object over the time interval from $t = a$ to $t = b$.
(b) Give the definition of the average of the velocity function over the interval from $t = a$ to $t = b$.
(c) Is the average velocity of the object over the time interval from $t = a$ to $t = b$ equal to the average of the velocity function over this time interval? If so, explain why. If not, explain why not.
Please rewrite your name and section number.
NAME:
SECTION NO:
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