The graph of the position of a car is given below. The time is measured in hours beginning at noon time and the position is measured in miles.

(i) What is the average velocity of the car over the time period from noon to 3 pm?

(ii) Let $A$ be the average velocity from noon to 3 pm, $B$ be the average velocity from 1 pm to 3 pm, and $C$ be the average velocity from noon to 1 pm. Arrange the numbers $A$, $B$, and $C$ in an increasing order. (e.g., for the numbers 1,2,3, we write $1 < 2 < 3$)

(iii) Indicate on the graph above a point at which the instantaneous velocity is equal to the answer in (i).

Date: September 15, 2004.