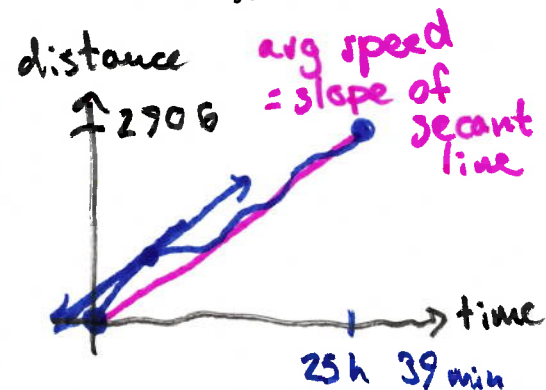


In the spring of 2020, with less traffic on the roads, there was a marked increase in speeding incidents. Perhaps most dramatically, the “Cannonball Run” record was broken at least twice. The Cannonball Run is an illegal coast-to-coast road race, beginning in New York City, and ending in Redondo Beach, CA.



The current record, set in April 2020, is 25 hours and 39 minutes. Over a distance of about 2,906 miles, this is equivalent to an average speed of approximately **113 mph**.

The fastest speed limit anywhere in the United States is **85 mph**.

- **Can we be sure the drivers were speeding** at some point during their run?
- Was the car ever moving at **exactly its average speed** at any point during the run? **MEAN VALUE THEOREM**
- How would you argue either of these in a court of law?