

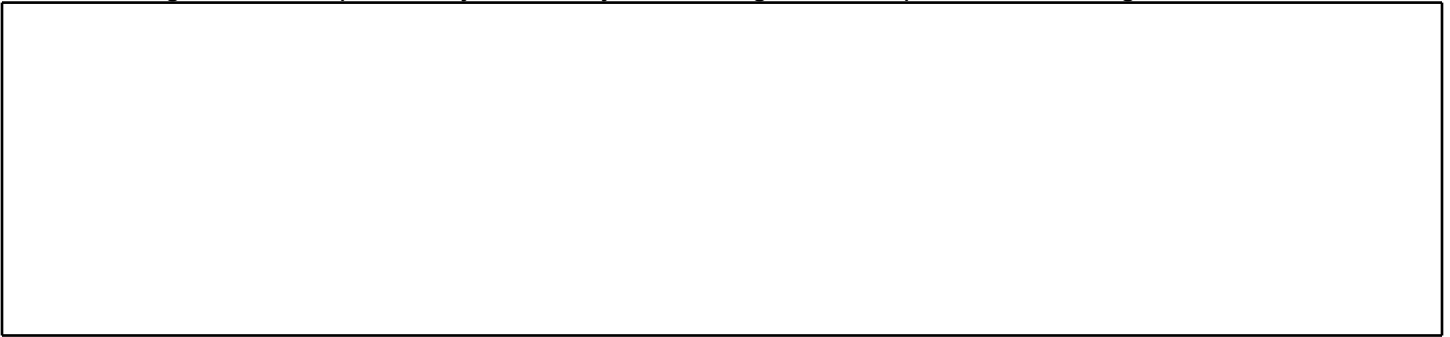
In a car

You are in a car on the highway. Looking at the dashboard, you note the following information:

- it is 11:04am
- the current speed is 93 km/h
- the odometer reads 1297.3 km

Can you say what the odometer will read at 11:30am?

When making such a computation, you actually are making an assumption to derive a guess, which is:



We can represent our approximation graphically. On the following set of axes, represent the following:

- the initial data known about the car,
- the assumption made about the car,
- the estimated position of the car at 11:30am.



Describe how the graphic representation above and the computation you did on the previous page relate to each other. For example, consider estimating what the odometer might read at 11:05am.

Which approximation do you have most confidence in, the one for 11:05am or 11:30am?

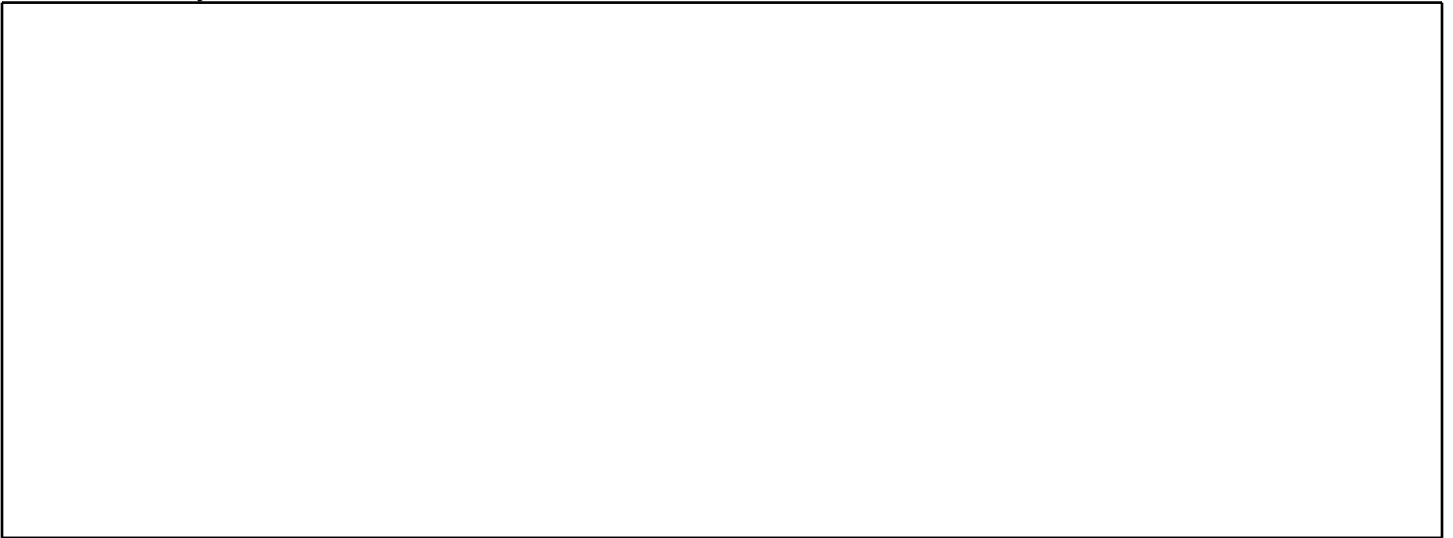
Let us denote by $f(t)$ the function giving the reading of the odometer at time t . What might the graph of this function look like?

What do we know about this function?

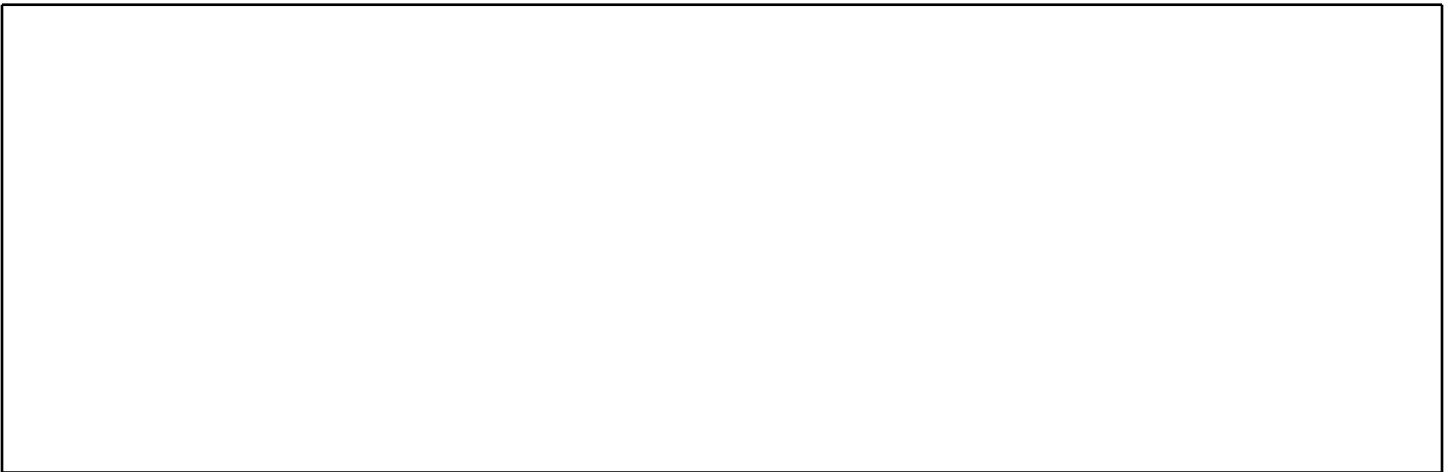
In which world is our estimate of the reading of the odometer at 11:30am the most accurate?

Which of the worlds is more likely to occur?

What was today's main idea?



Do you have any new questions springing from today's discussion?



Any confusion? Misunderstandings? Difficulties?



Page to doodle on.