

### Location Approximation Problem

At 11:00 am, a car driving north on Interstate 5 is 52 miles north of San Diego. If the velocity of the car  $t$  hours after 11:00 am is  $v(t) = 72 + 10t^2$ , what do you think the location of the car will be at 11:01 am? At 11:05 am? At 11:30 am? At noon? Do you think your predictions are accurate?