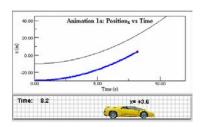
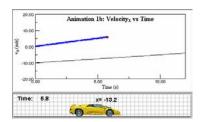
## Worksheet for Exploration 2.5: Determine x(t) and v(t) of the Lamborghini



a. Find the position of the toy Lamborghini as a function of time, x(t), for each animation (position is given in centimeters and time is given in seconds). Restart. Note that the graph depicts the position as a function of time. Use the "check function" button to see the actual position vs. time graph and use this as a guide for your analysis.

	Initial position	Initial Velocity	Acceleration
1a			
2a			
3a			
4a			



b. Find the velocity of the toy Lamborghini as a function of time, v(t), for each animation (position is given in centimeters and time is given in seconds). Use the "check function" button to see the actual velocity vs. time graph and use this as a guide for your analysis. (If you have taken calculus, this exercise should be particularly straightforward.)

	Initial Velocity	Acceleration
1b		
2b		
3b		
4b		