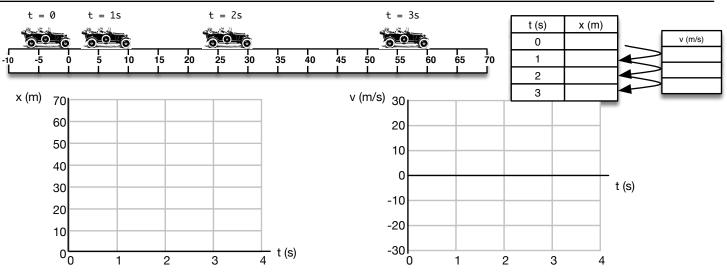
## **Cycle 13 Motion Graphs**

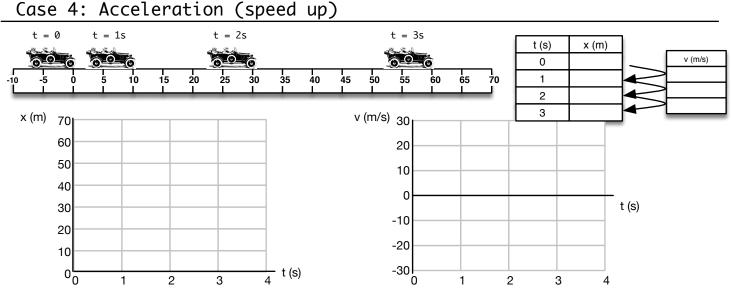
Case 4: Acceleration (speed up)



1. On the position graph, what is the pattern of a speed up acceleration?

- 2. On the velocity graph, what is the pattern of a speed up acceleration?
- 3. How would each graph be different if the speed up were the same, but the car started at x = 10 m at t = 0?
- 4. How would each graph be different if the start was the same, but the acceleration were greater?
- 5. On the velocity graph, how is the value of acceleration represented?





1. On the position graph, what is the pattern of a speed up acceleration?

2. On the velocity graph, what is the pattern of a speed up acceleration?

3. How would each graph be different if the speed up were the same, but the car started at x = 10 m at t = 0?

4. How would each graph be different if the start was the same, but the acceleration were greater?

5. On the velocity graph, how is the value of acceleration represented?