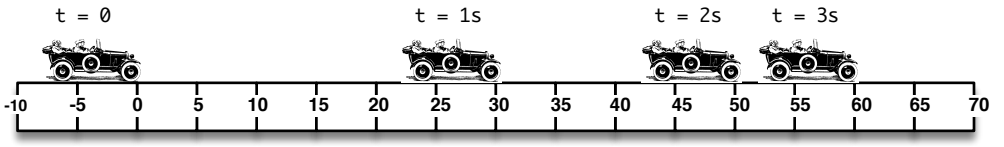
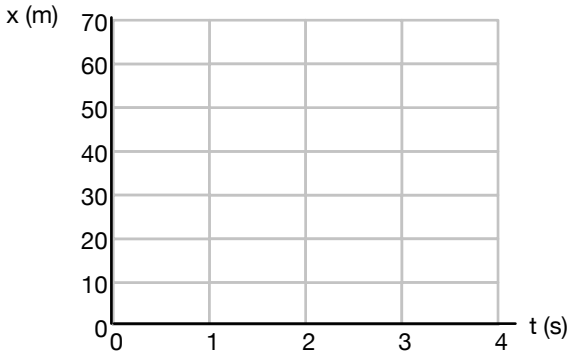
# Cycle 13 Motion Graphs

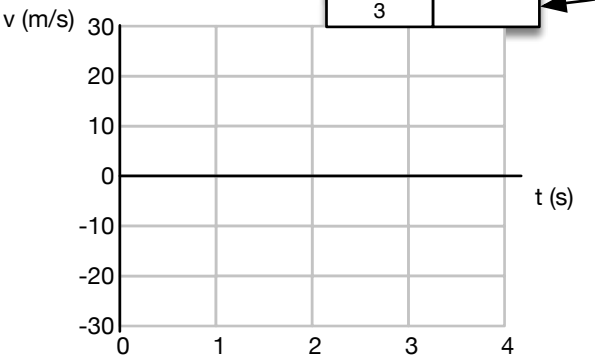
## Case 5: Acceleration (slow down)




| t (s) | x (m) |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |

| v (m/s) |
|---|
| |
| |
| |




1. On the position graph, what is the pattern of a slow down acceleration?

2. On the velocity graph, what is the pattern of a slow down acceleration?

3. How would each graph be different if the slow down 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 (a more drastic slow down)?

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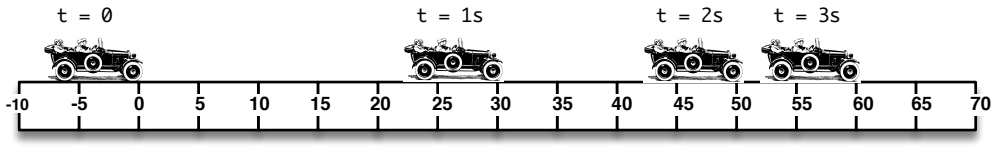


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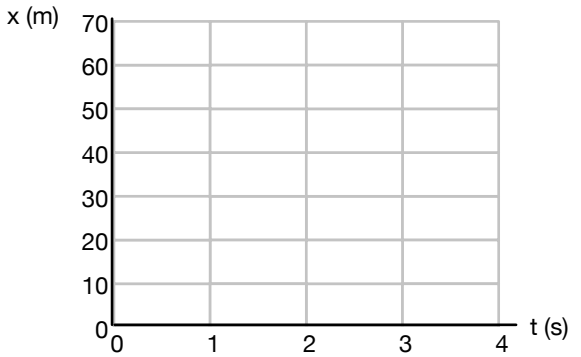
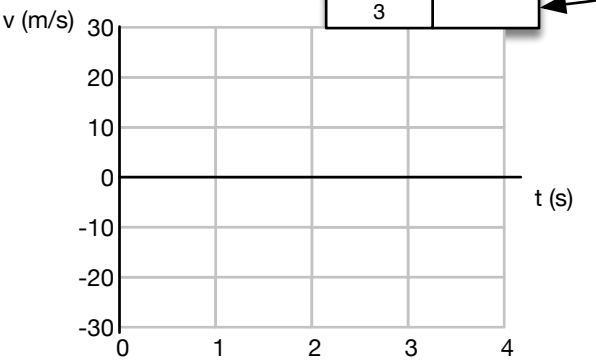
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |

| v (m/s) |
|---|
| |
| |
| |





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