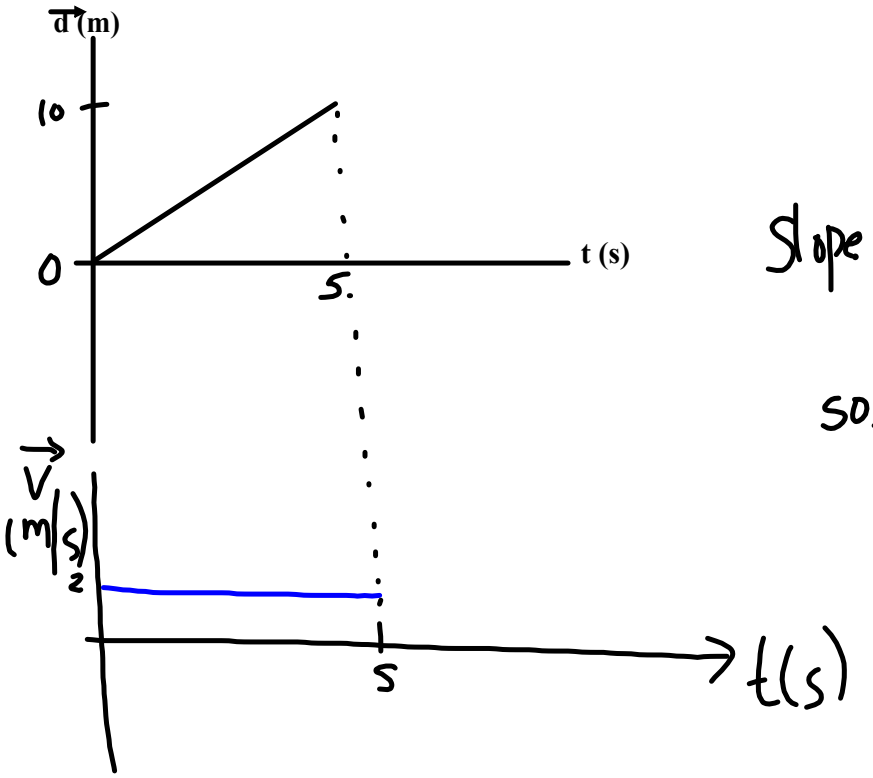
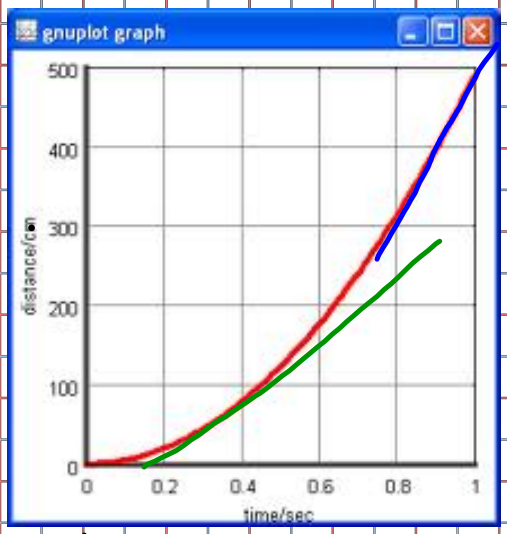
Changing d-t graphs to v-t graphs



Slope on d-t = speed

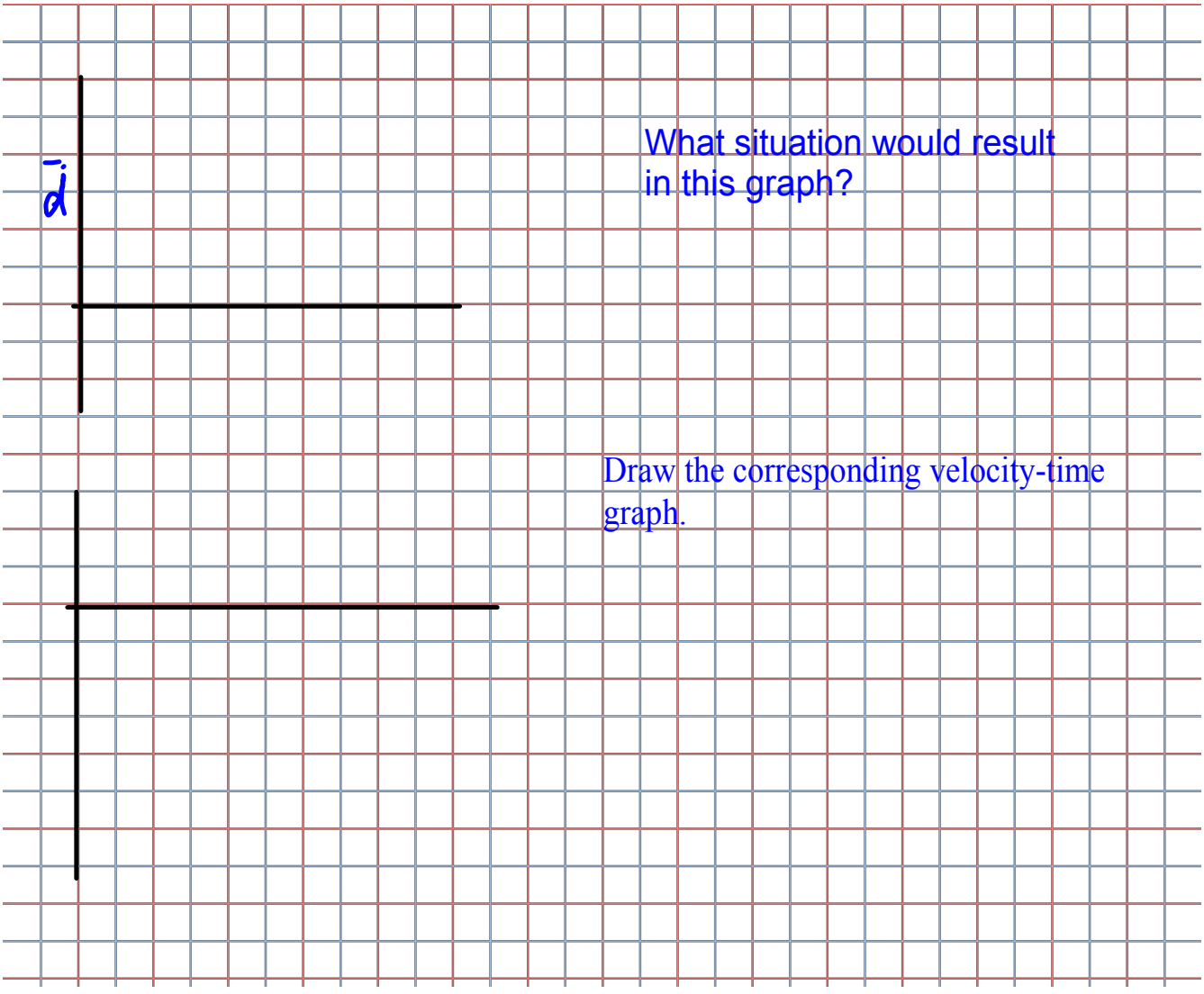
slope = v = 2 m/s

so... line on v-t graph goes across from 2 m/s



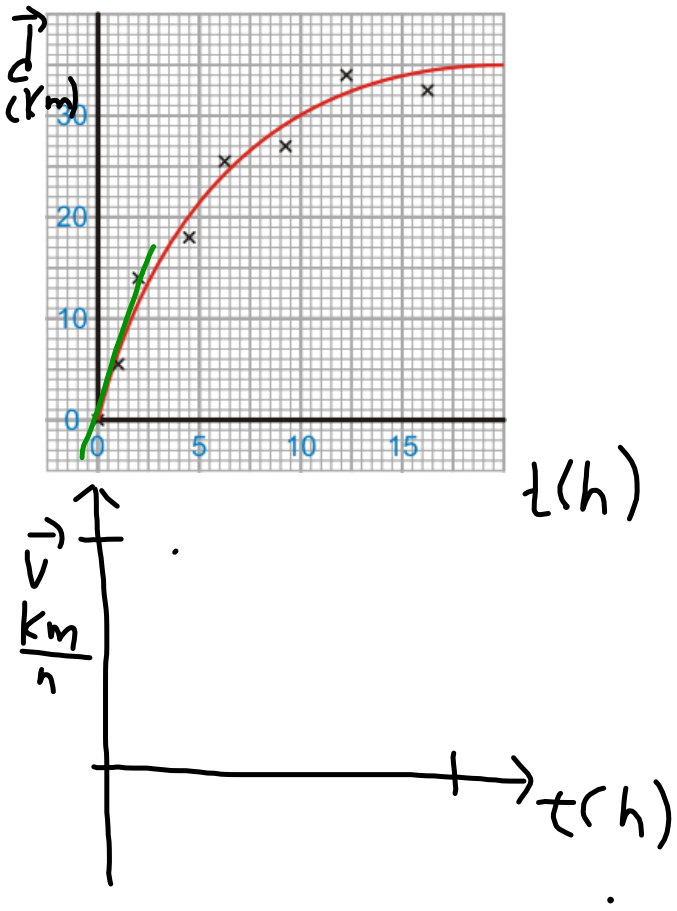
What situation would result in this graph?

Draw the corresponding velocity-time graph.

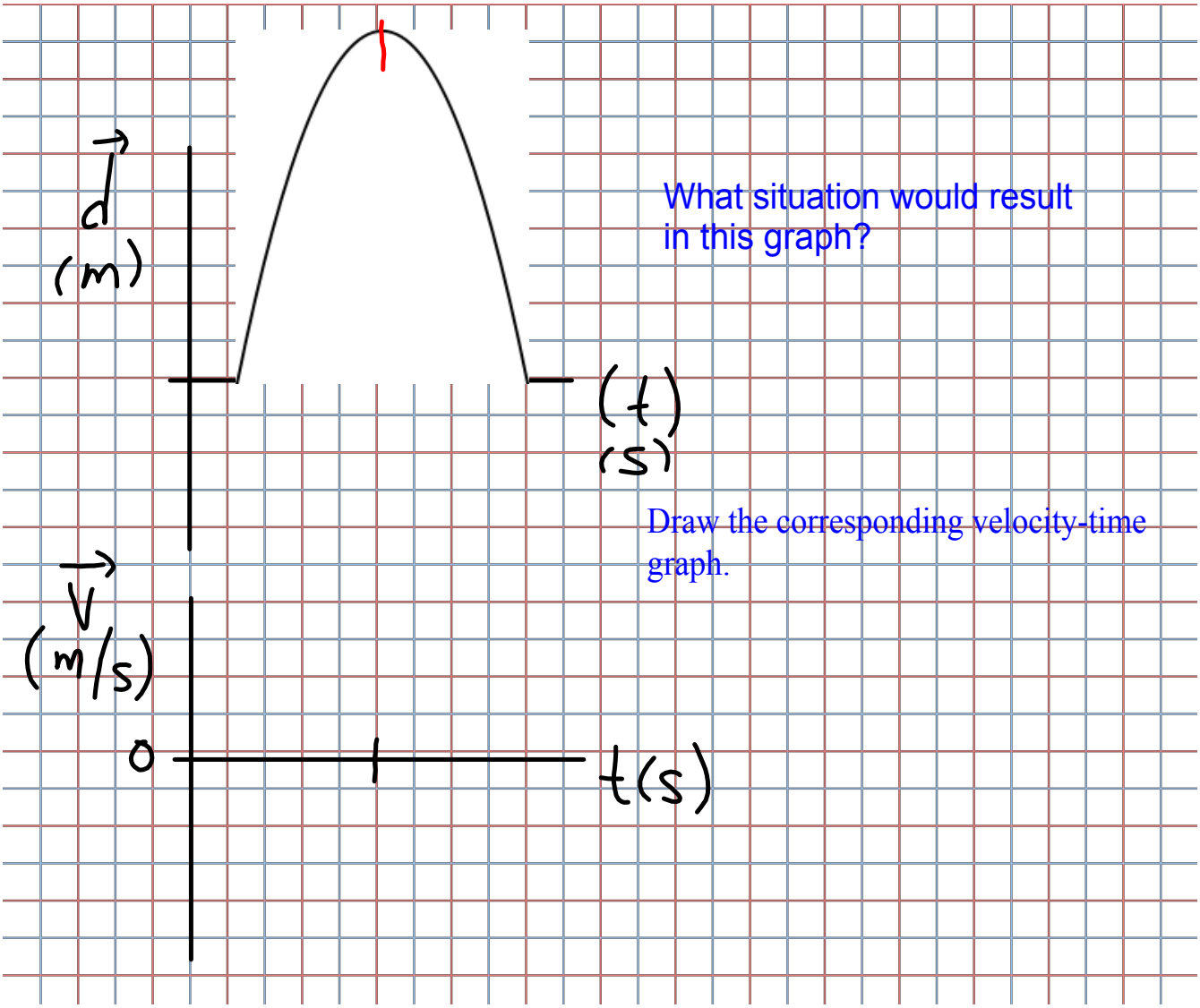


What situation would result in this graph?

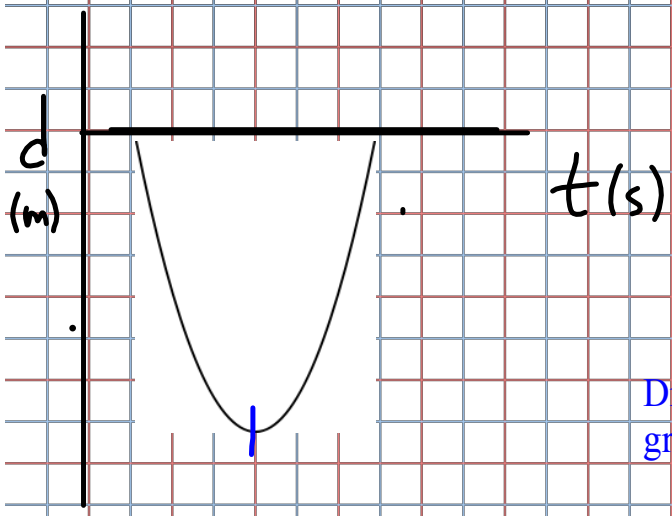
Draw the corresponding velocity-time graph.



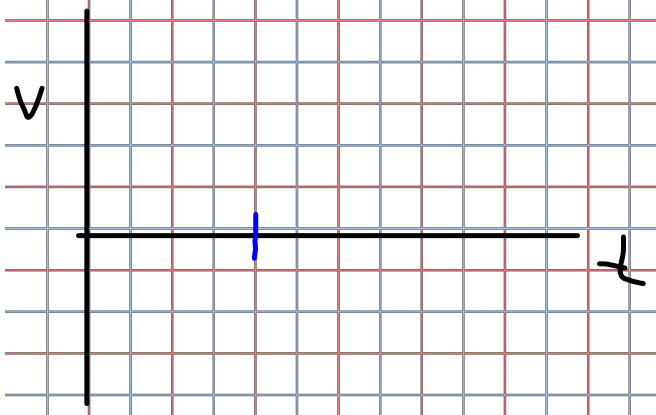
Draw the corresponding velocity-time graph.

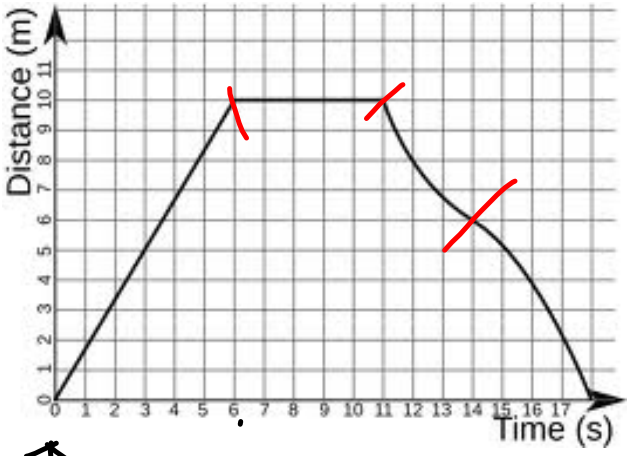

d
(m)
(t)
(s)
What situation would result in this graph?
Draw the corresponding velocity-time graph.
v
(m/s)
0
t(s)

What situation would result in this graph?

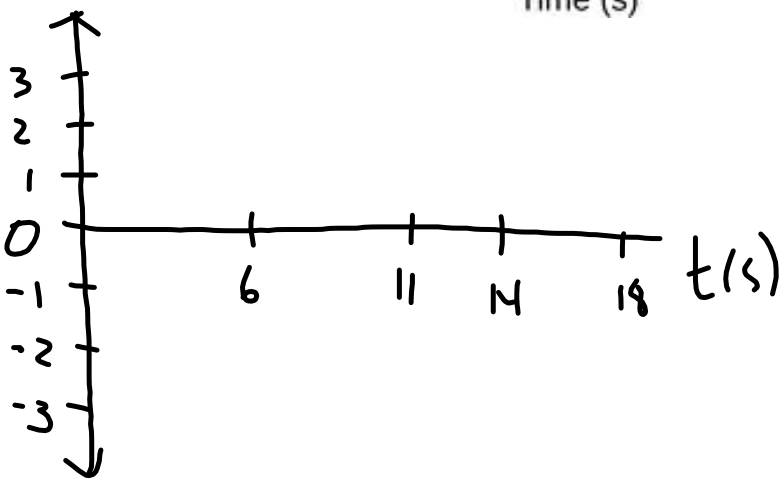


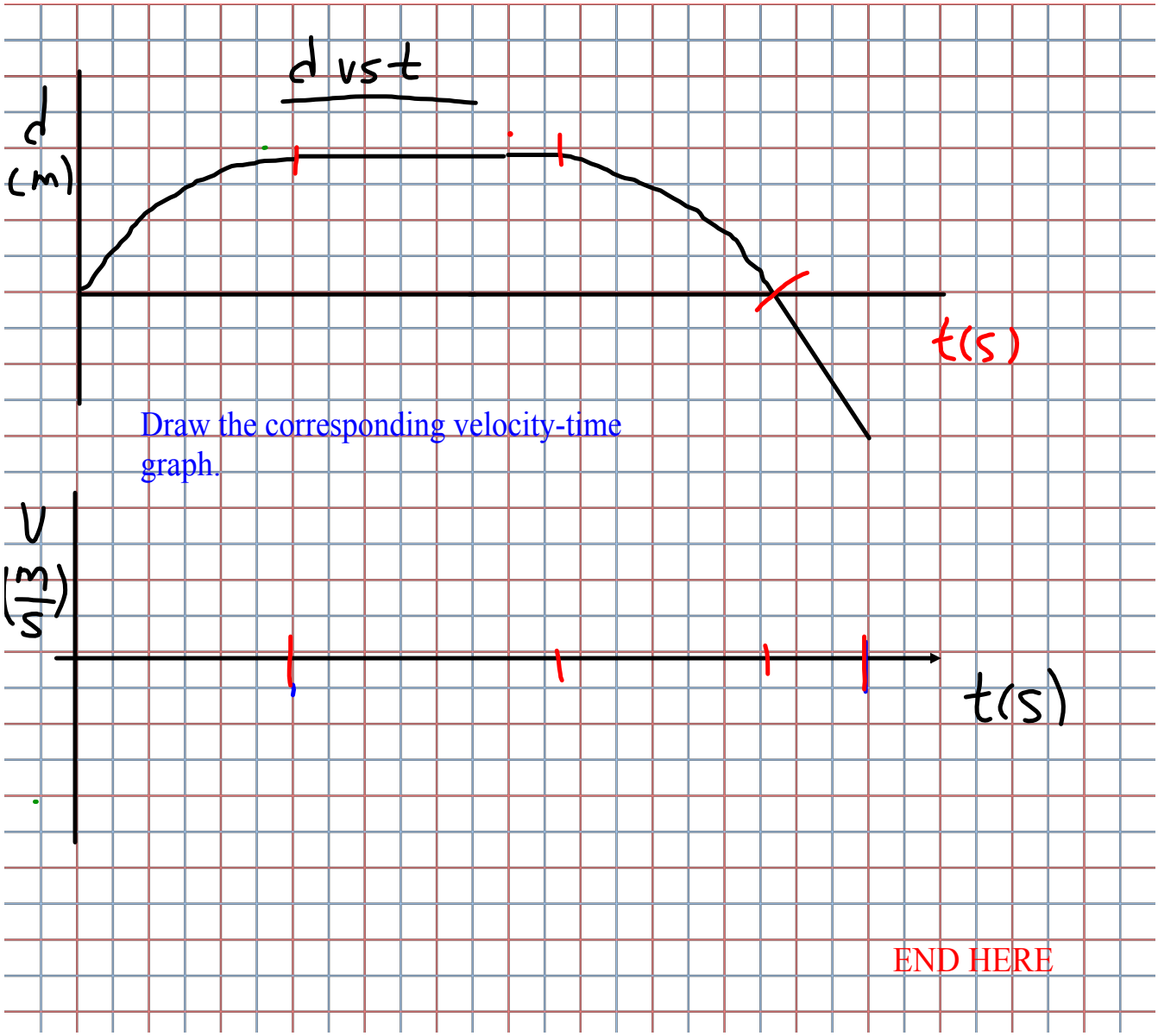
Draw the corresponding velocity-time graph.

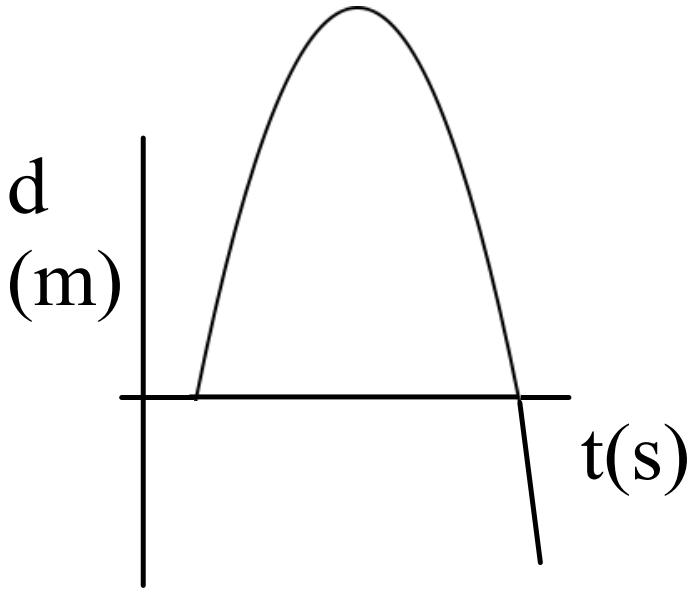




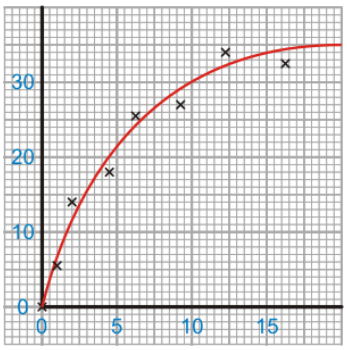
Draw the corresponding velocity-time graph.

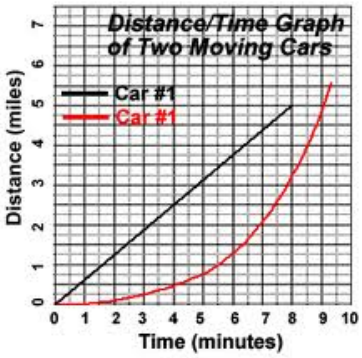


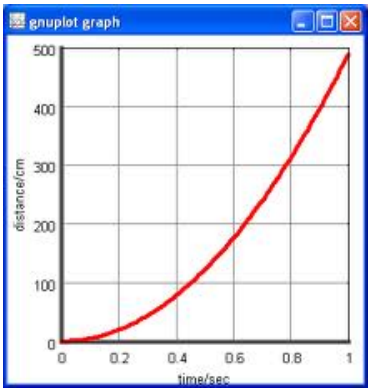

d vs t
d (m)
t(s)
Draw the corresponding velocity-time graph.
V (m/s)
t(s)
END HERE

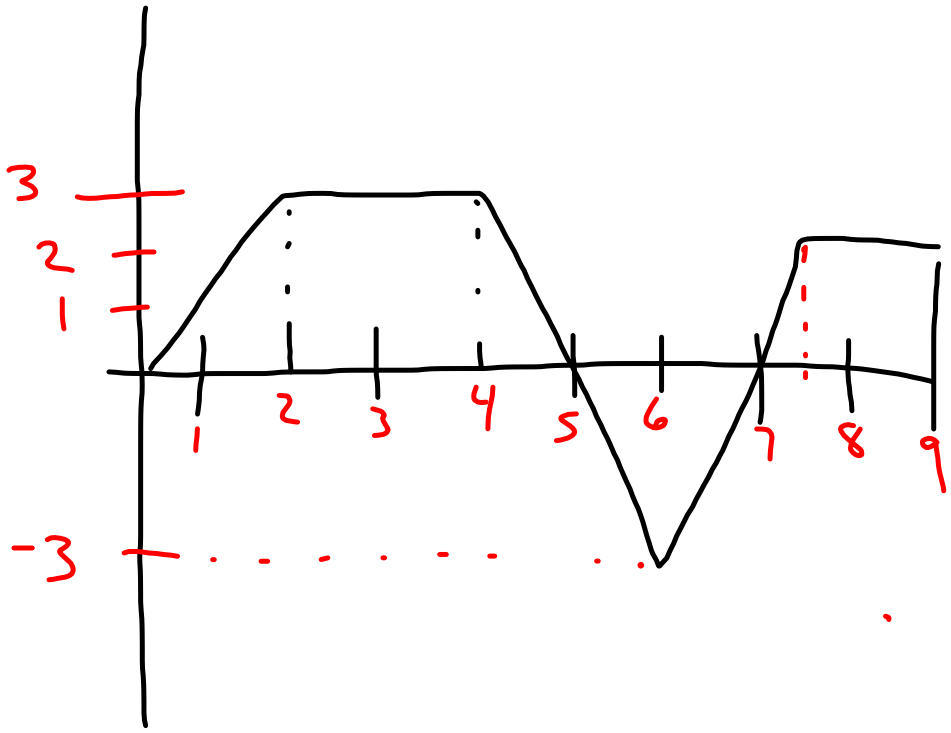

d
(m)
t(s)

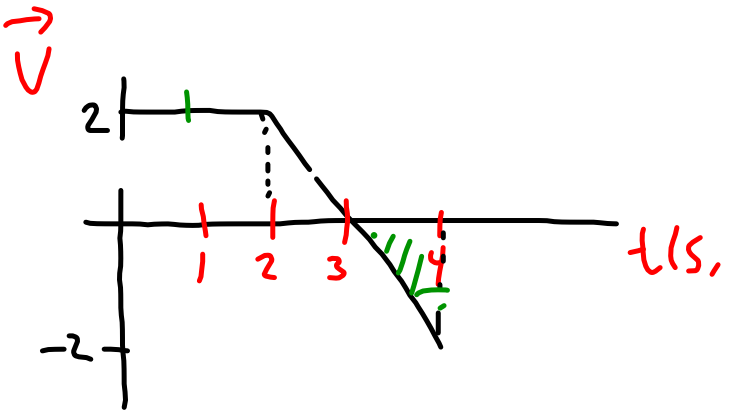
Page 71 # 22, 23, 24, 25(no slopes)

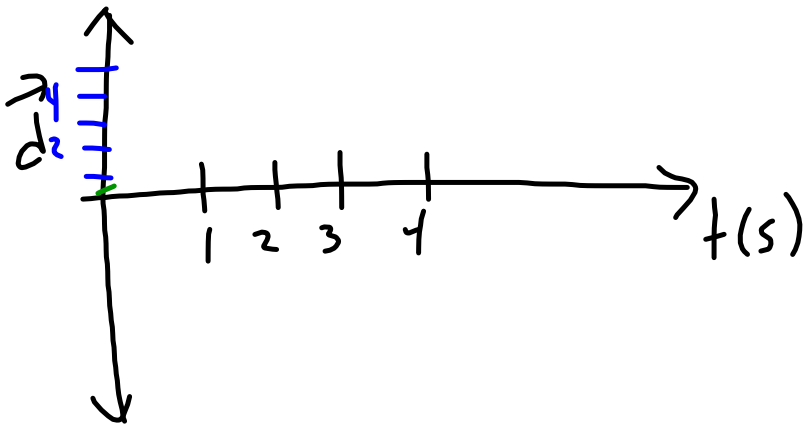

30
20
10
0
0
5
10
15

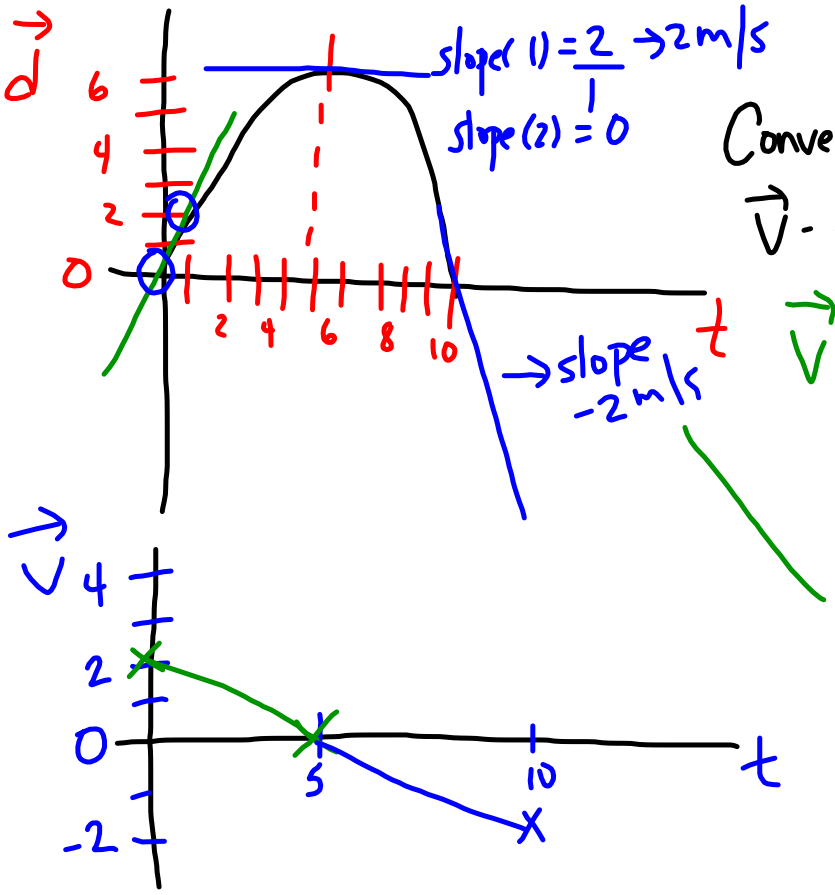

Distance/Time Graph
of Two Moving Cars
Car #1
Car #1
Distance (miles)
0 1 2 3 4 5 6 7
0 1 2 3 4 5 6 7 8 9 10
Time (minutes)


gnuplot graph
500
400
300
200
100
0
distance/cm
0 0.2 0.4 0.6 0.8 1
time/sec


3
2
1
-3
1
2
3
4
5
6
7
8
9


v
2
-2
1
2
3
4
t(s)

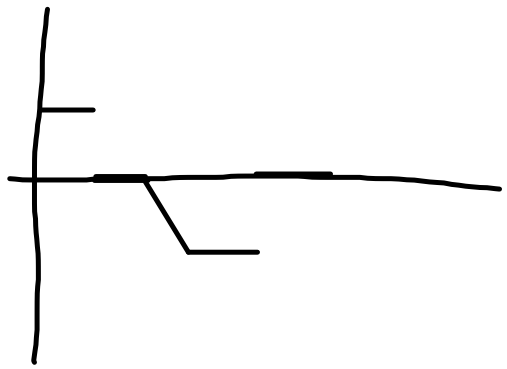

d
2
1
2
3
4
t(s)



Convert to a $\vec{v}$-t graph.

$\vec{v}$ - slope of tangents

22



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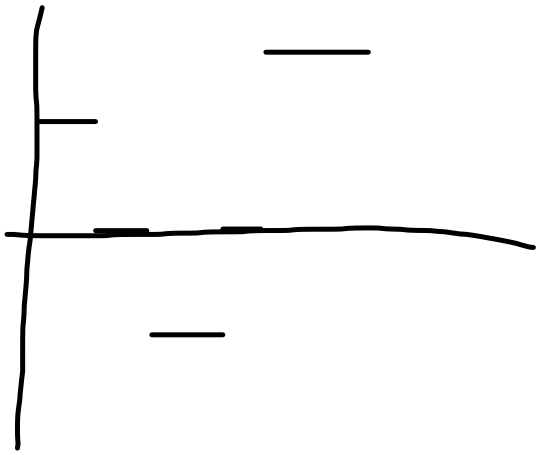
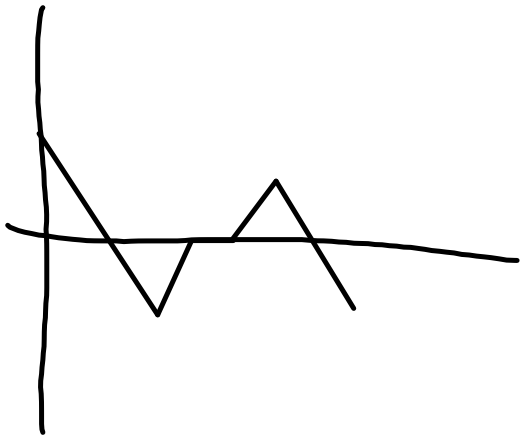


23



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