

PHYS 215-Mechanics I-Question Bank 7

2019-2020

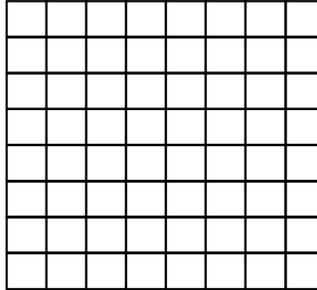
Full name:

Plot the velocity – time and acceleration - time graph for the data given in the tables below.

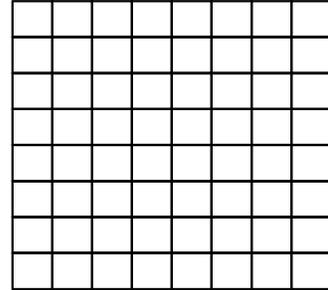
Example 1

Time (s)	velocity(m/s)
0	0
5	20
10	40
15	60
20	80
25	100

velocity – time graph



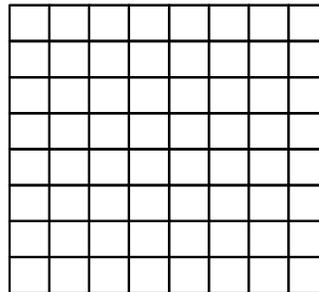
acceleration – time graph



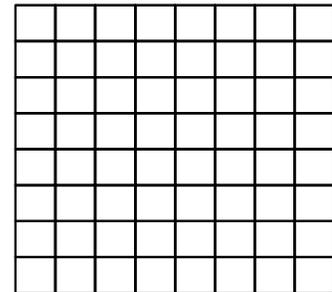
Example 2

Time (h)	velocity(km/h)
0	-20
1	0
2	20
3	40
4	60
5	40

velocity – time graph



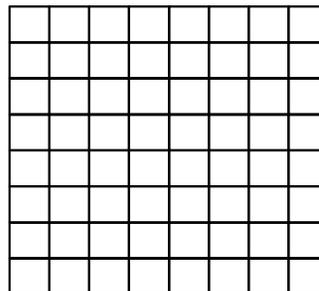
acceleration – time graph



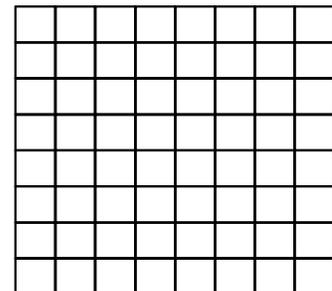
Example 3

Time (s)	velocity(m/s)
0	20
1	20
2	20
3	30
4	40
5	50

velocity – time graph



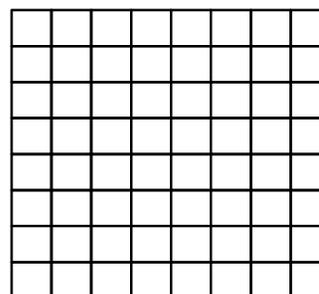
acceleration – time graph



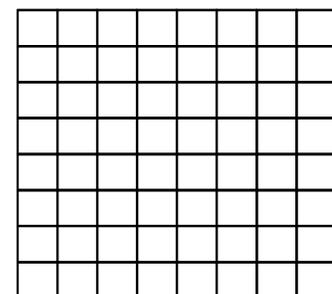
Example 4

Time (s)	velocity(m/s)
0	30
1	20
2	10
3	0
4	-10
5	-20

velocity – time graph



acceleration – time graph



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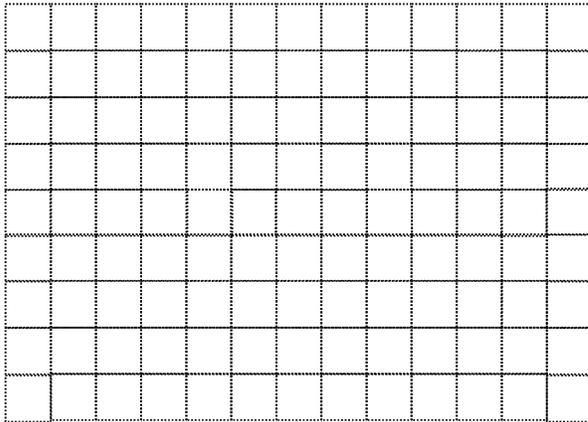
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Question 1

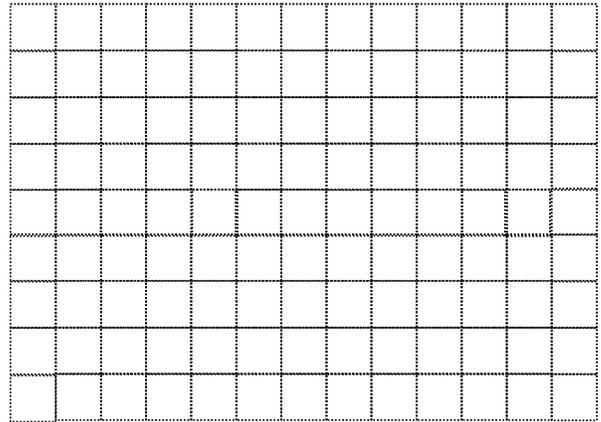
The table below shows the changes in the velocity of a moving object with respect to time.

Time(s)	0	1	2	3	4	5	6	7	8	9	10
Velocity (m/s)	0	4	8	12	16	16	16	8	8	8	0

a. Plot the velocity - time graph



b. Plot the acceleration - time graph

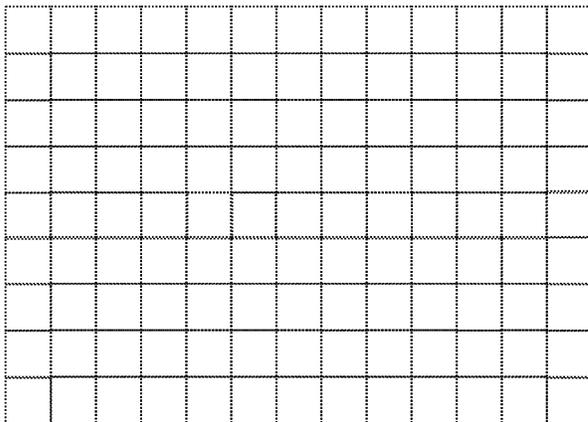


Question 2

The table below shows the changes in the velocity of a moving object with respect to time.

Time(s)	0	1	2	3	4	5	6	7	8	9	10
Velocity (m/s)	-4	-2	0	4	8	12	16	16	8	0	-4

a. Plot the velocity - time graph



b. Plot the acceleration - time graph

