III. Kinematic

PHYS 11

		Tel et al
3	Trajectories	Le Châtelard



- 1) Draw the position of the mobile for
- 2) Draw the velocity of the mobile for
- 4) Complete the trajectory.
- 5) What could be the mobile in real life ?

Exercise 2

The position, velocity and acceleration of a mobile are given by:



- t = 0; t = 90; t = 180; t = 270; t = 360
- t = 0; t = 90; t = 180; t = 270; t = 360
- 3) Draw the acceleration of the mobile for t = 0; t = 90; t = 180; t = 270; t = 360

- 1) Draw the position of the mobile for t = 0; t = 1; t = 2
- 2) Draw the velocity of the mobile for t = 0; t = 1; t = 2
- 3) Complete the trajectory.
- 4) What could be the mobile in real life ?
- 5) What is constant in this trajectory ?

The position, velocity and acceleration of a mobile are given by: Exercise 3



1) Draw the position of the mobile for

t = 0; t = 1; t = 2

2) Draw the velocity of the mobile for

t = 0; t = 1; t = 2

- 3) Draw the acceleration of the mobile for t = 0; t = 1; t = 2
- 4) Complete the trajectory.
- 5) What could be the mobile in real life ?
- 6) What is constant in this trajectory ?

III. Kinematic

PHYS 11



3 Trajectories

Exercise 4 The position, velocity and acceleration of a mobile are given by:



- 1) Draw the position of the mobile for
- 2) Draw the velocity of the mobile for
- 3) Draw the acceleration of the mobile for
- 4) Complete the trajectory.
- 5) What could be the mobile in real life ?

t = 0; t = 1; t = 2; t = 3; ...; t = 20t = 0; t = 1; t = 2; t = 3; ...; t = 20

t = 0; t = 1; t = 2; t = 3; ...; t = 20