

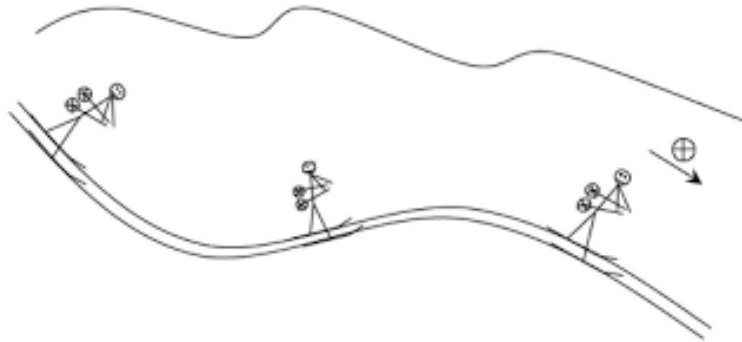
Describing the motion of an object

The system: modelisation of the moving object

A moving object is usually not punctual. To describe its motion, a model will be used: The system is the center of gravity of the object, where all its mass is concentrated.

Trajectory of the system

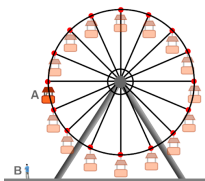
The trajectory of the system corresponds to the set of points through which the center of gravity of the object has passed (or will be passing) during its motion.



Note: The trajectory is linear when the object follows a straight line.

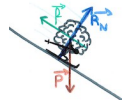


The trajectory is circular when the object moves in a circle.



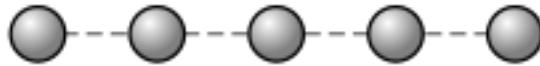
The trajectory is parabolic when the object forms a parabola.



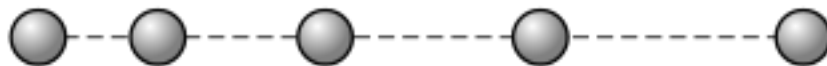


Nature of the motion

The motion of an object can be uniform when the object moves at constant speed.



The motion is accelerated when the object moves faster and faster.



The motion is decelerated when the object moves slower and slower.

