

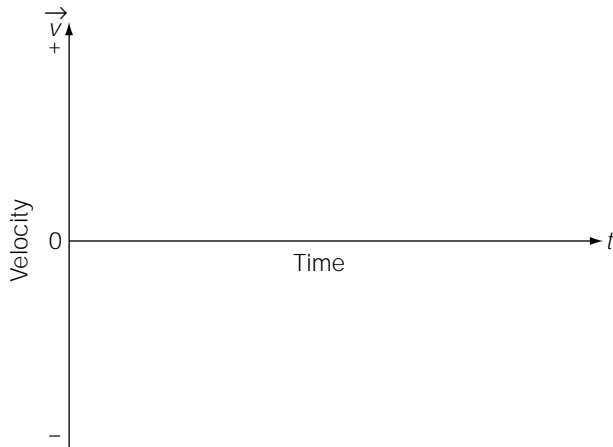
Sketching Velocity-Time Graphs

Goal • Sketch velocity-time graphs for the motion of objects.

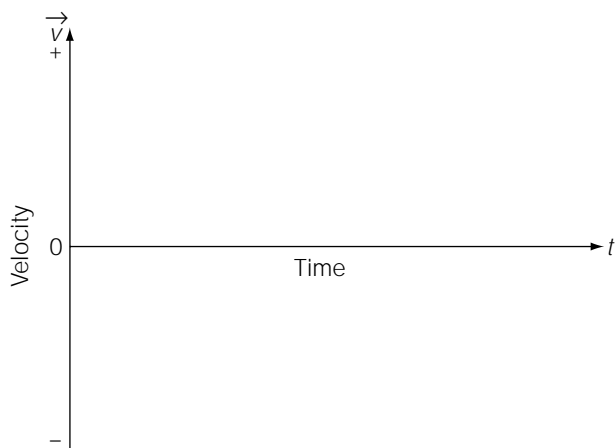
What to Do

Sketch the velocity-time graph of each *horizontal* motion described.

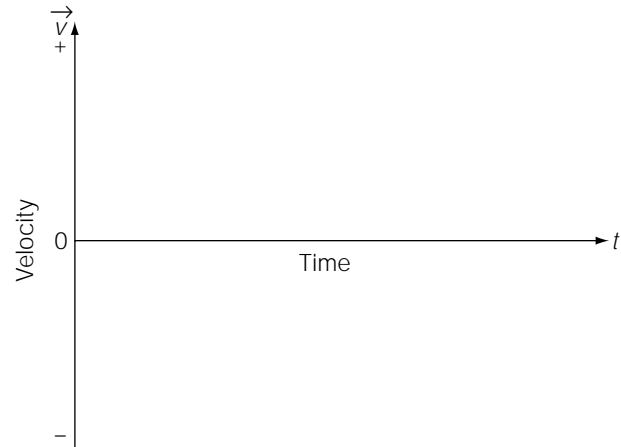
1. a lab cart rolling across a horizontal plane, to the right, at a constant velocity



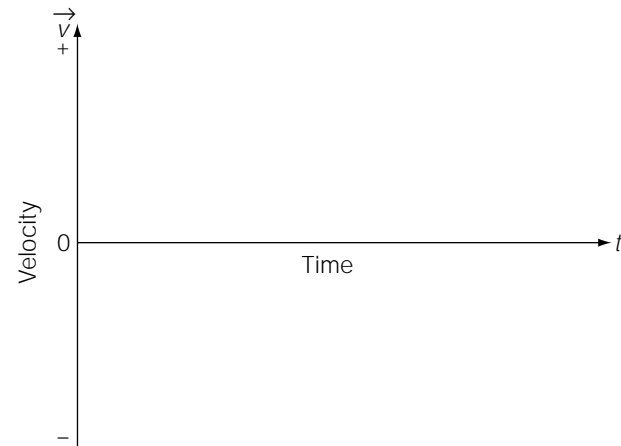
2. a lab cart rolling across a horizontal plane, to the left, at a constant velocity



3. a lab cart rolling down an inclined plane, starting from rest

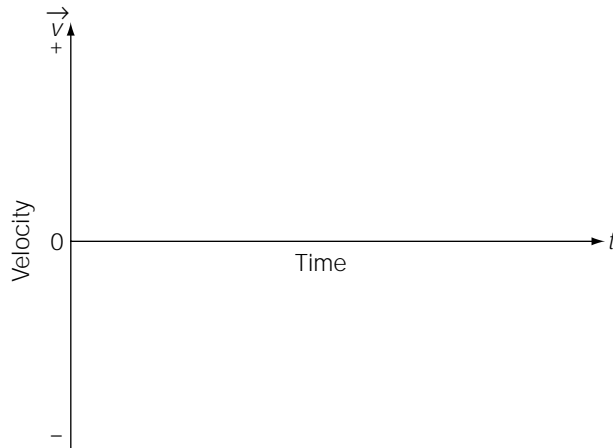


4. a lab cart rolling up an inclined plane, starting at 5.0 m/s

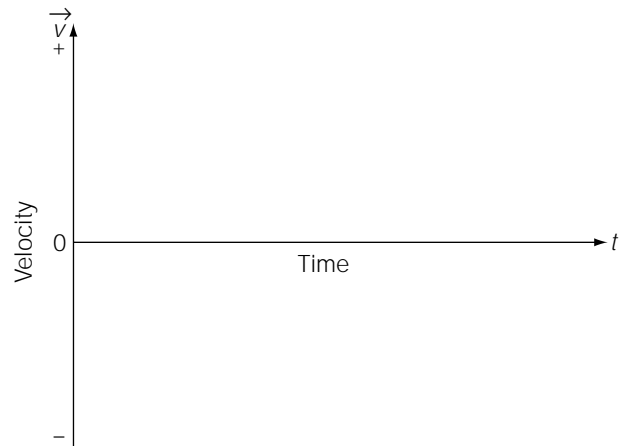
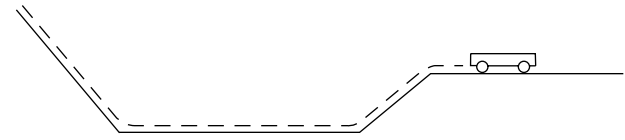


Sketching Velocity-Time Graphs (continued)

5. a lab cart rolling from right to left across a horizontal plane, then down a short incline, and finally onto another horizontal plane



7. a lab cart starting from rest and rolling along the path shown



6. a car braking for a traffic light, waiting for a short time, accelerating from rest, and finally cruising at a constant velocity

