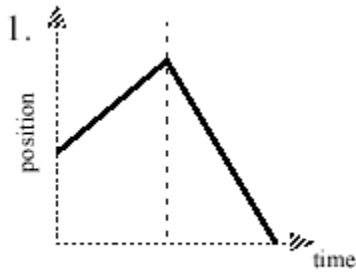


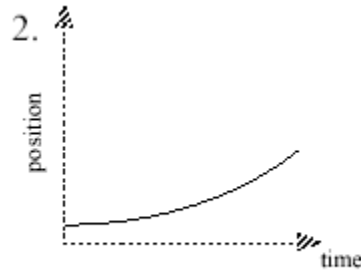
Unit 2 Kinematics Worksheet 2: Stacks of Kinematic Curves

Given the following position vs time graphs, describe the motion, and construct the corresponding velocity vs time and acceleration vs time graphs.



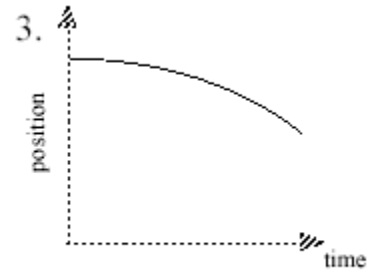
Description of motion:

1. Moves positively at constant speed,
2. changes direction and moves back beyond starting position at faster speed



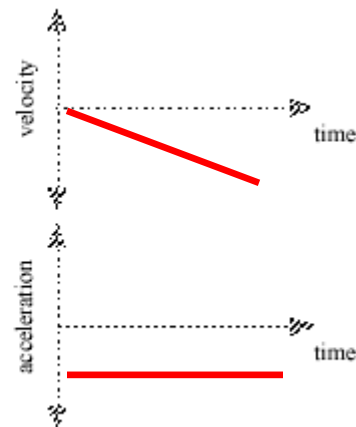
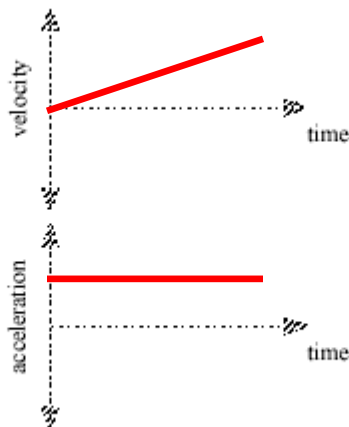
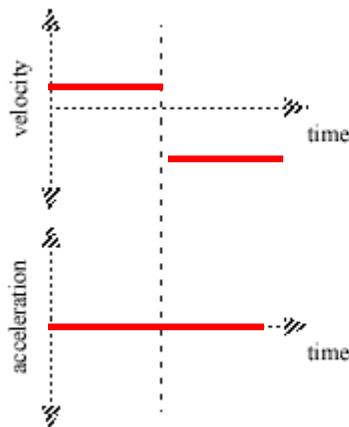
Description of motion:

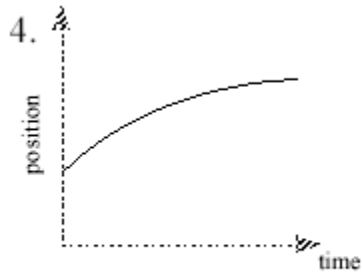
speeds up positive direction



Description of motion:

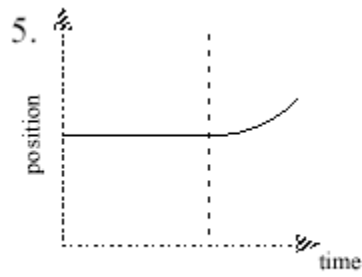
speeds up starting at a positive position and moving towards the origin (negative direction)





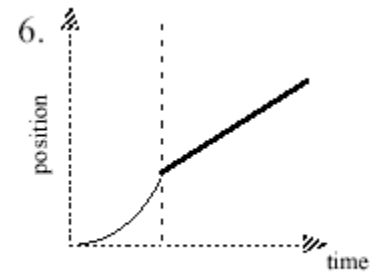
Description of motion:

Slows down, moving positive direction



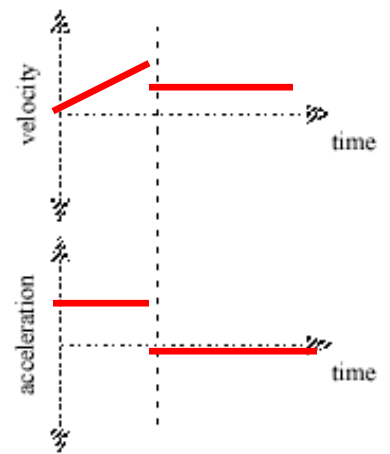
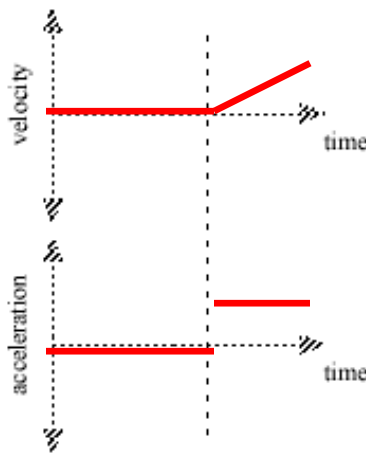
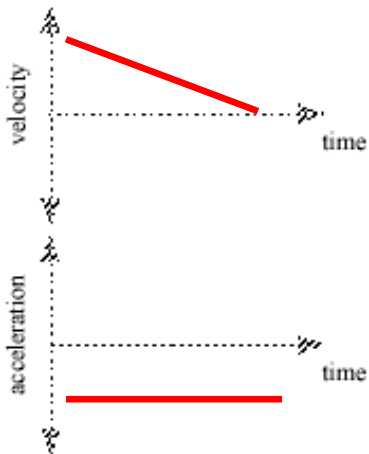
Description of motion:

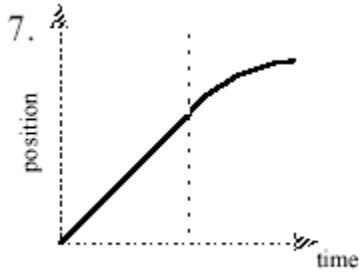
1. remains at rest for a while
2. speeds up in positive direction



Description of motion:

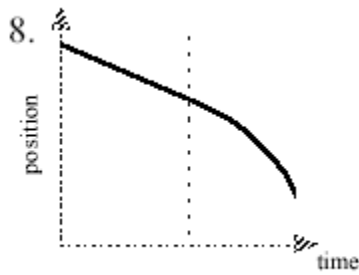
1. speeds up moving in positive direction
2. Then moves at constant speed in positive direction





Description of motion:

1. moves at constant speed in positive direction from origin
2. then slows down to a stop, still moving in positive direction



Description of motion:

1. moves from some positive position towards the origin (in negative direction) at a constant speed
2. then speeds up, still moving in negative direction towards origin



Description of motion:

1. Starts at origin and speeds up moving in positive direction
2. Then slows down still moving in positive direction.

