

One dimensional kinematics:

1. Can a body change the direction of its velocity at constant acceleration?
2. When could a body have a constant speed but changing velocity?
3. Can the speed of a body be zero and its acceleration nonzero at the same time?
4. How can you accelerate with constant speed?
5. Can an object be moving with zero acceleration?
6. Can a body be accelerating when its speed is zero?
7. What is an example of a body moving where its velocity is opposite its acceleration?
8. In free fall, if a ball is dropped, its acceleration is g down. If instead the ball is thrown down, what is its acceleration then?
9. In which hill is the body speeding up but with a decreasing acceleration?

