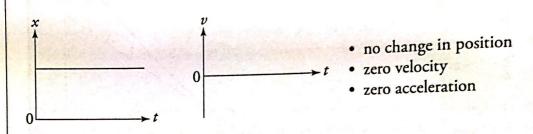
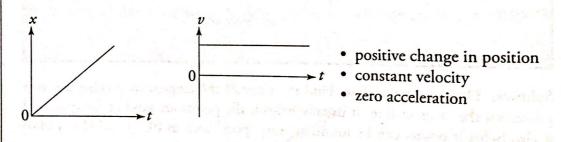
Beyond all the math, you are at a clear advantage when you start to recognize that position-versus-time and velocity-versus-time graphs have a few basic shapes, and that all the graphs you will see will be some form of these basic shapes. Having a feel for these building blocks will go a long way toward understanding kinematics graphs in physics.

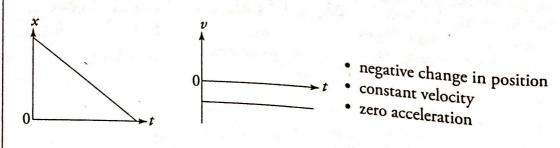
Either of the following two graphs represents something that is not moving.



Either of the following two graphs represents an object moving at a constant velocity in the positive direction.

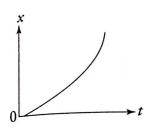


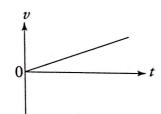
Either of the following two graphs represents an object moving at a constant velocity in the negative direction.



Know These Graphs

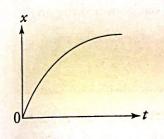
Familiarize yourself with these graphs so that you can quickly look at any graph and have a sense of what's going on as far as change in position, velocity, and acceleration immediately. Either of the following two graphs represents an object speeding up in the positive direction.

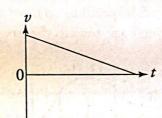




- positive change in position
- increasing velocity
- positive acceleration

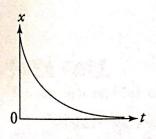
Either of the following two graphs represents an object slowing down in the positive direction.

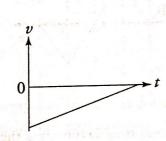




- positive change in position
- decreasing positive velocity
- negative acceleration

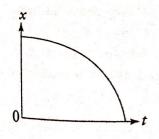
Either of the following two graphs represents an object slowing down in the negative direction.

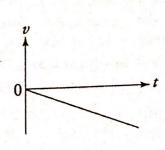




- positive change in position
- decreasing negative velocity
- positive acceleration

Either of the following two graphs represents an object speeding up in the negative direction.





- negative change in position
- increasing negative velocity
- negative acceleration