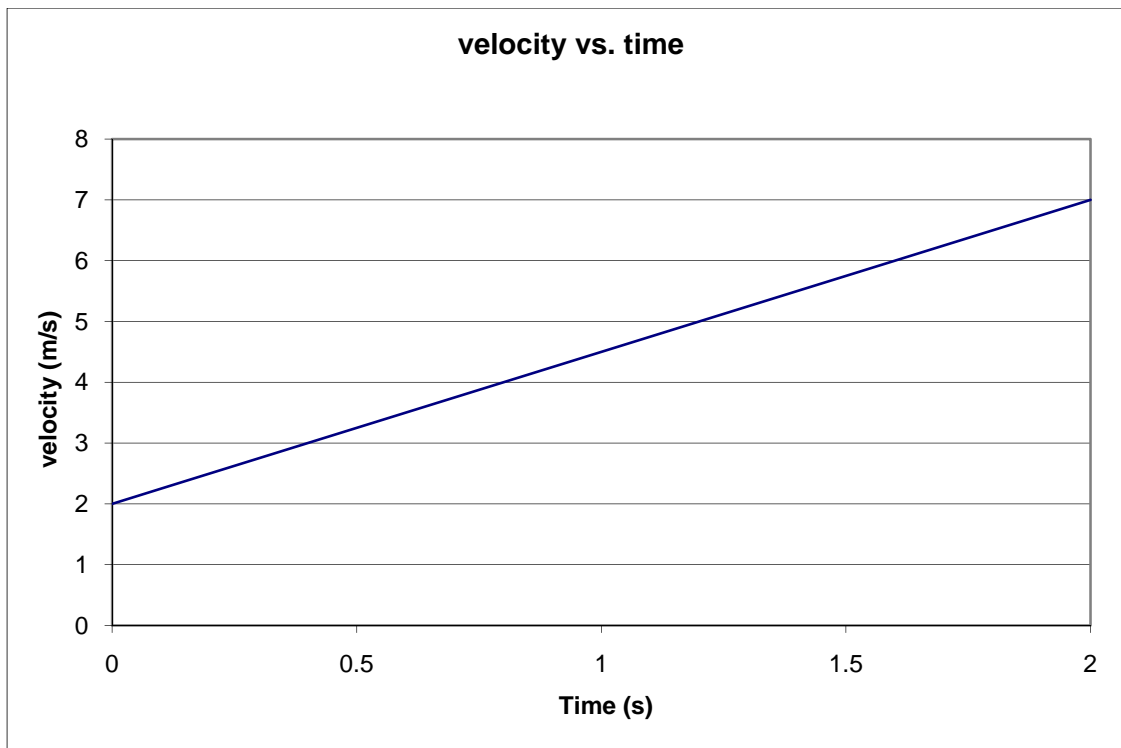
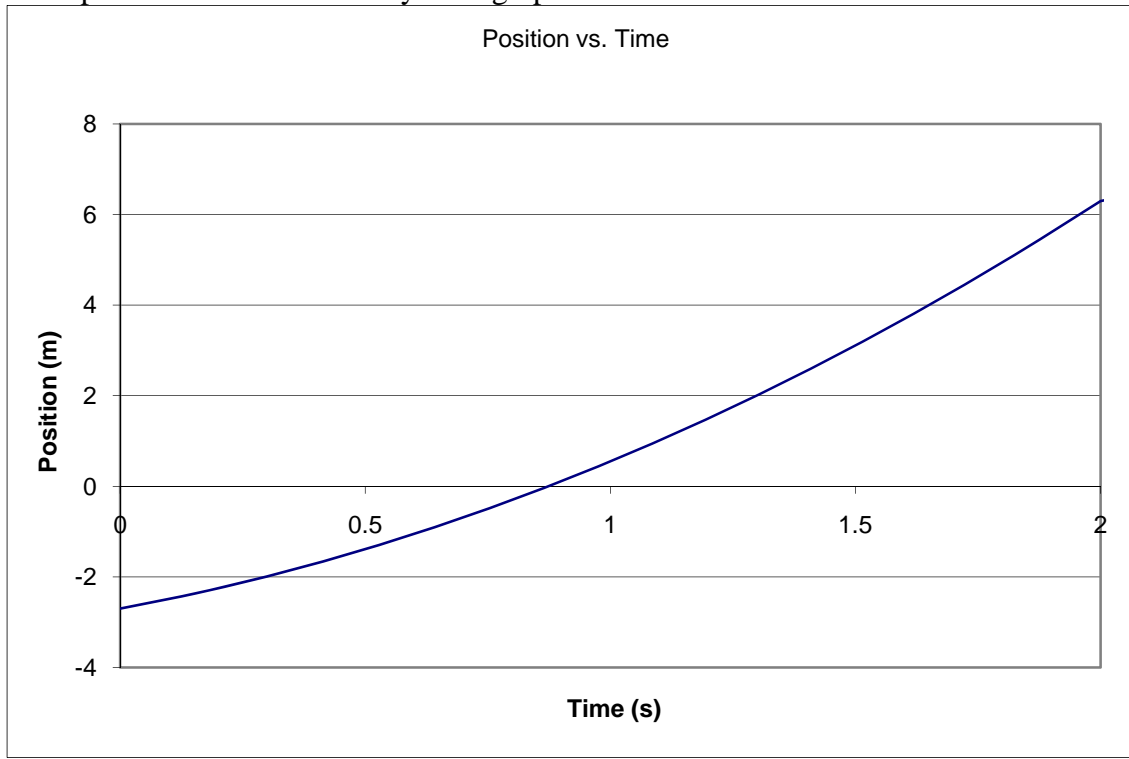


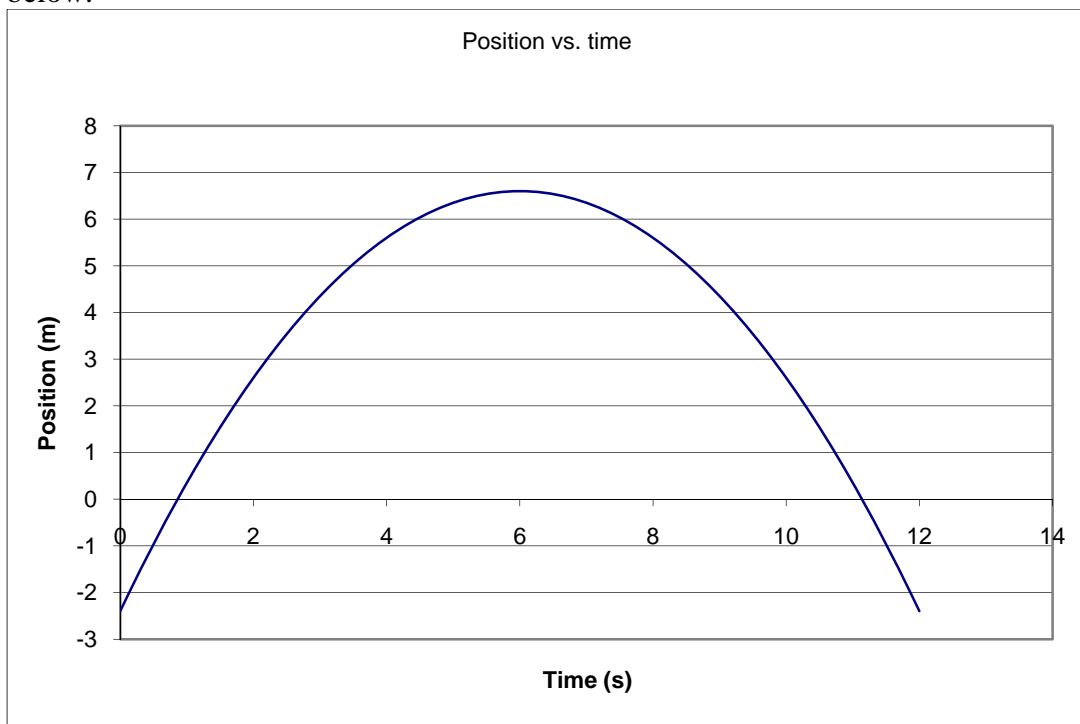
**Phys201 pre-lab 4** You have two different situations.

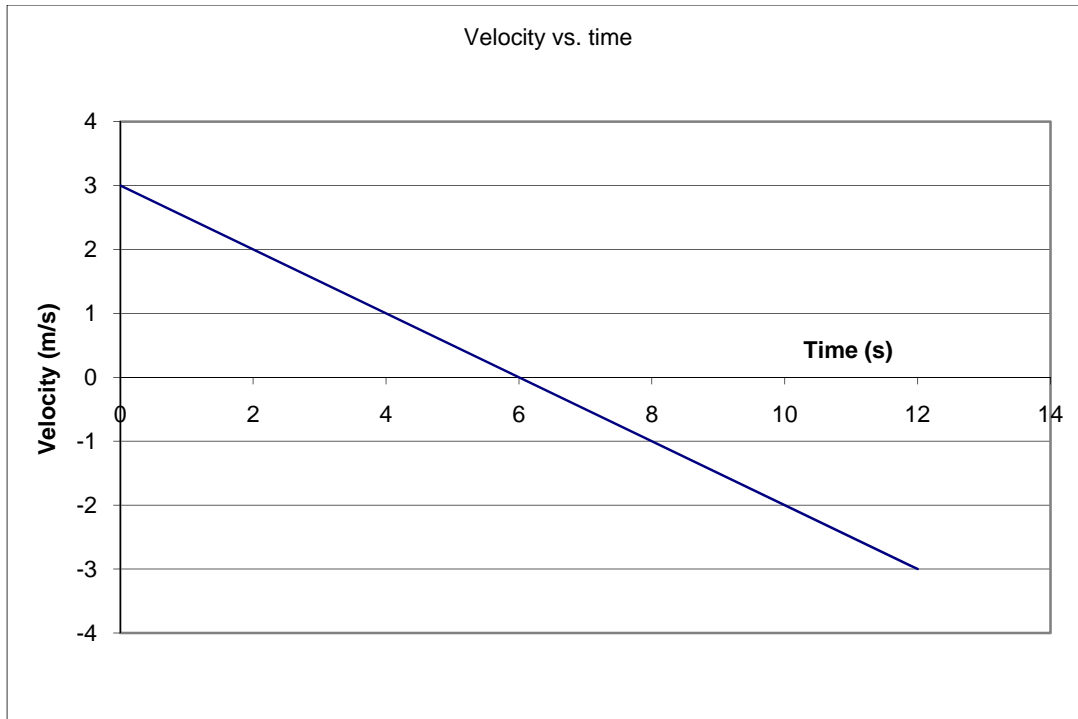
Situation 1: A 2.5 N exerts a force on a 1kg block on a horizontal frictionless plane produces these position-time and velocity-time graphs.



A) Describe the motion situation (acceleration, direction of acceleration, initial velocity, etc.) that would produce the position - time and velocity - time graph. Your description must be both qualitative and quantitative

Situation 2: A block of unknown mass starts at the left of a frictionless plane and a force of 0.5N is exerted on the block. The position-time and velocity-time graphs for the block are shown below.





- A) Describe the motion situation (acceleration, direction of acceleration, initial velocity, etc.) that would produce the position – time and velocity - time graphs. Your description must be both qualitative and quantitative
- B) Find out the mass of the block.