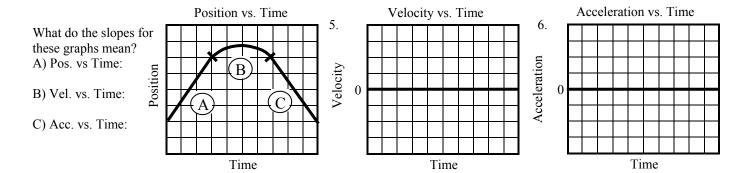
## Free-fall (and some review)

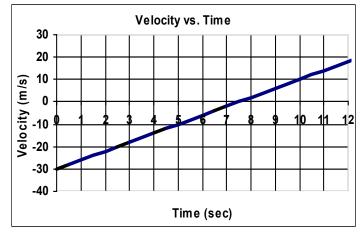
Due: Wedn., Sept 7 (Reg Physics) Assigned: Thurs., Sept 1 (Fri., Sept 2, Reg)

**Due: Tues., Sept 6 (Pre-AP Physics)** 

1. An object is dropped 15 meters. How fast will it be going at the bottom?

- 2. An object is thrown into the air going 18 m/s. If it reaches 16.2 m into the air in 1.8 seconds. Find its acceleration.
- 3. An object is launched from 2 meters above the ground going 65 m/s, straight up. On its downward path, how fast will it be going 2 meters before it hits the ground?
- 4. An object is dropped from a cliff. If it takes 6 seconds for it to hit the ground. How high was the cliff?





Graphically determine the displacement of the object in the first 10 seconds of its travel. (**Challenge question**). (*Hint: you will definitely need slope, etc.*)

- 7. When I say "Graphically" what do I mean?
- 8. Work here:

- 9. Cactus have adapted their leaves into thorns and internalized their chlorophyll into their trunks to thrive in what biome?
- 10. Tundra and deserts biomes have opposite extremes of temperatures yet both have very slow growth rates. Give a reason for this for each of these two biomes (on the back, please).