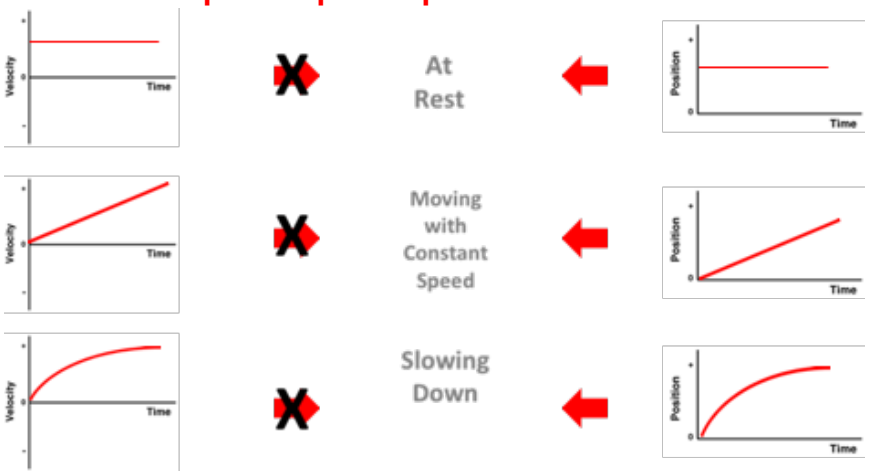
Velocity-Time Graphs
Video Notes

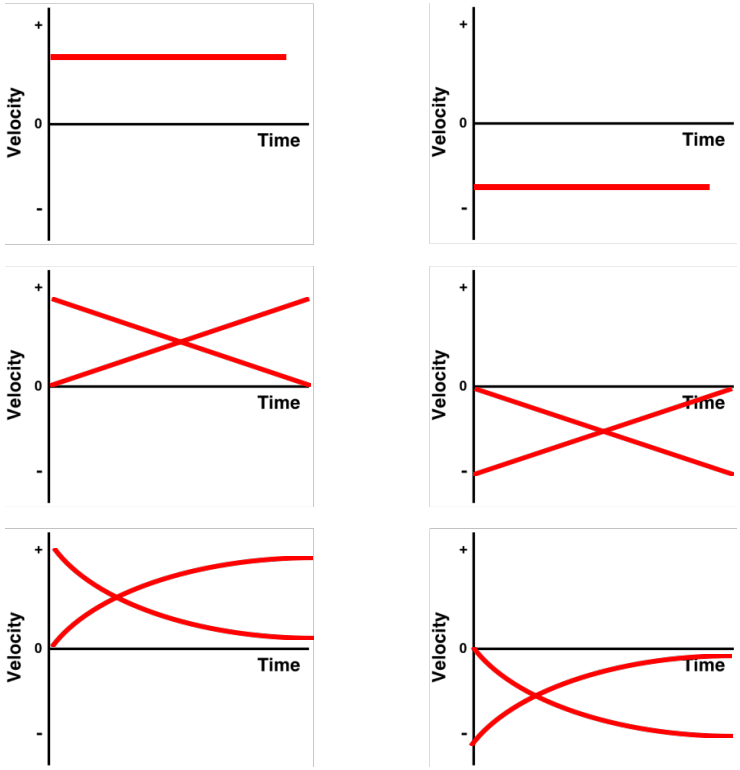
Questions

- How can you tell positive from negative velocity?
- How can a constant velocity be distinguished from a changing velocity or an at rest object?
- And how does slowing down look different than speeding up?

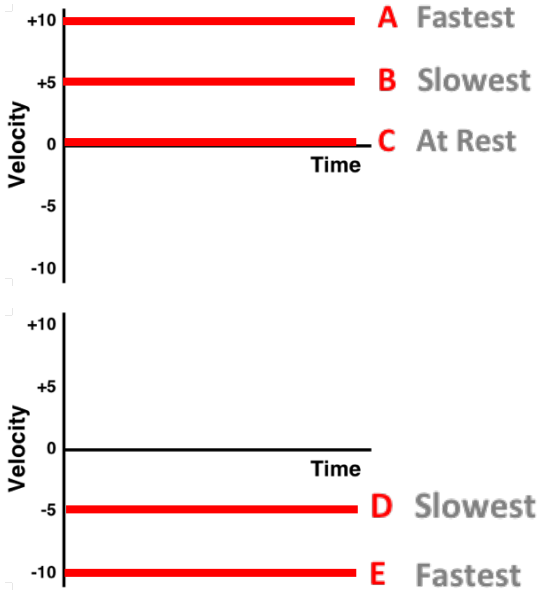
Avoid v-t Graph and p-t Graph Confusion:



Positive Velocity vs. Negative Velocity



Constant Velocity; Fast vs. Slow vs. At Rest

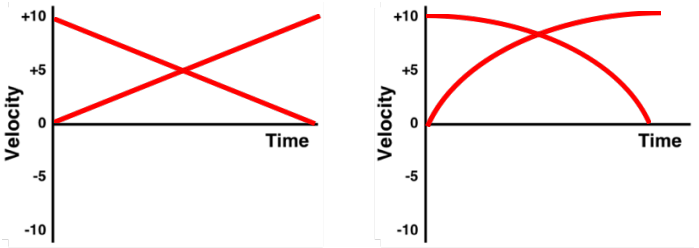


Horizontal lines represent constant velocity motions.

Lines representing faster objects are further from the v=0 mark.

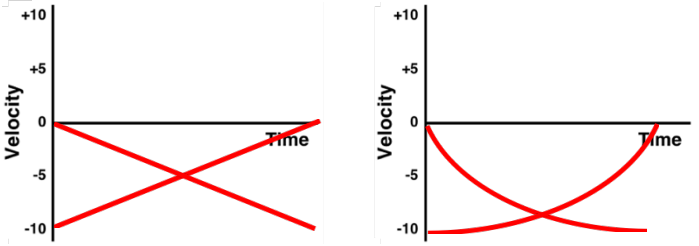
Lines representing slower objects are closer to the v=0 mark.

Changing velocity: Speeding Up vs. Slowing Down

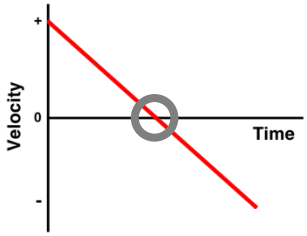


Speeding Up or Getting Faster: A , C , E , H

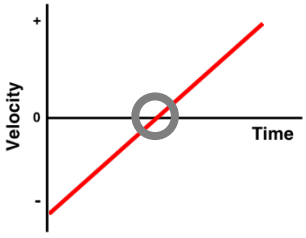
Slowing Down or Getting Slower: B , D , F , G



Changing Directions



Moving in + Direction (Right) ... and later Moving in - Direction (Left)



Moving in - Direction (Left) ... and later Moving in + Direction (Right)