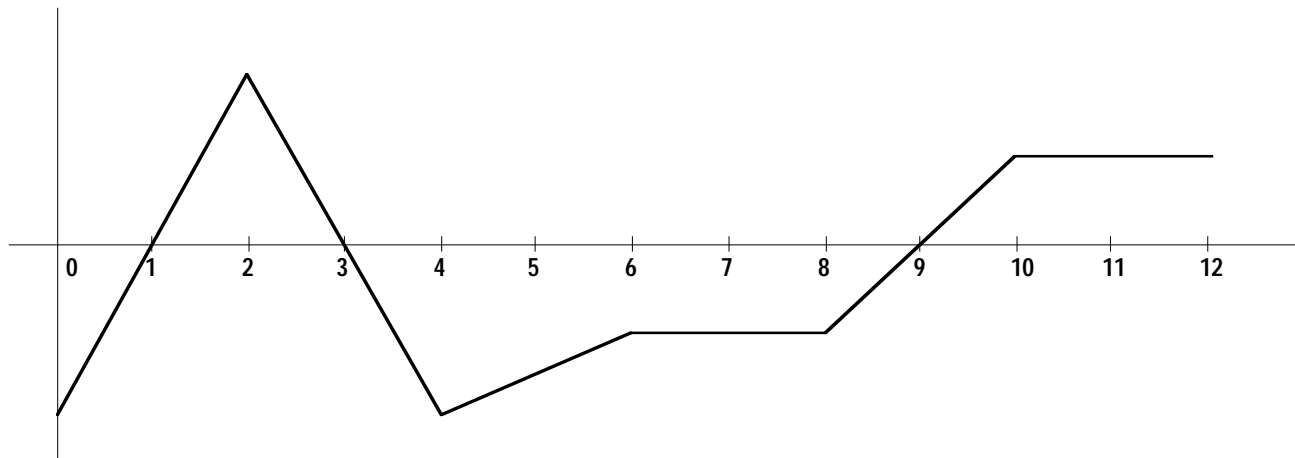
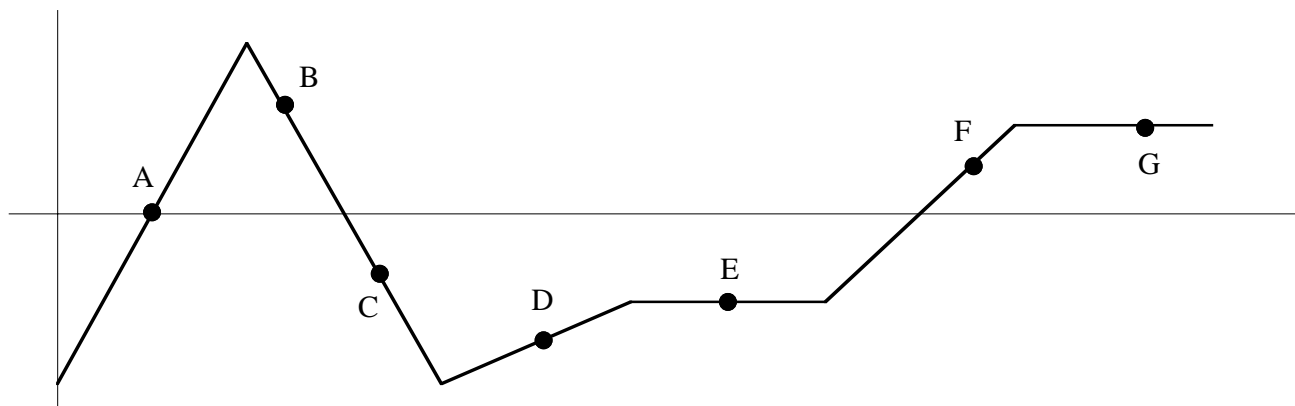


# PhyzJob: What's Goin' On, Too?

even more verbal interpretations  
of motion graphs

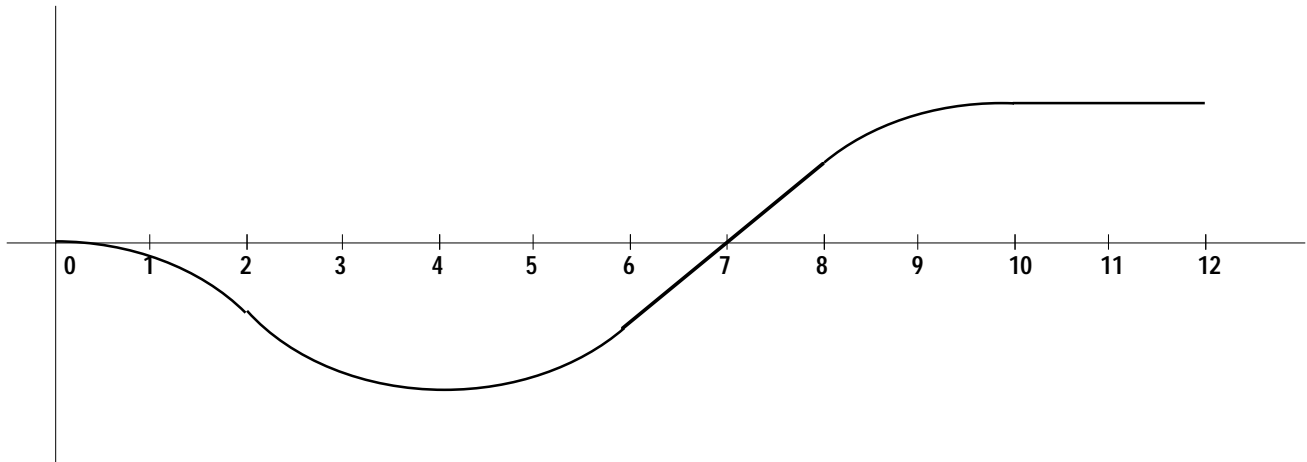


1. The plot above shows the **velocity vs. clock reading** of a body. Label the axes accordingly. Then label the following regions of the graph.
  - a. When is the body traveling in the positive direction? (Label those segments “Positive velocity.”)
  - b. When is the body traveling in the negative direction? (Label those segments “Negative velocity.”)
  - c. When is the body at rest? (Label those segments or points “Rest.”)
  - d. When is the body undergoing positive acceleration? (Label those segments “Positive Acceleration.”)
  - e. When is the body undergoing negative acceleration? (Label those segments “Negative Acceleration.”)
  - f. When is the body undergoing zero acceleration? (Label those segments “UM.”)
  - g. When is the body speeding up? (Label those segments “Speeding Up.”)
  - h. When is the body slowing down? (Label those segments “Slowing Down.”) Notice that these are **not** identical to the place(s) labeled “Negative Acceleration.”

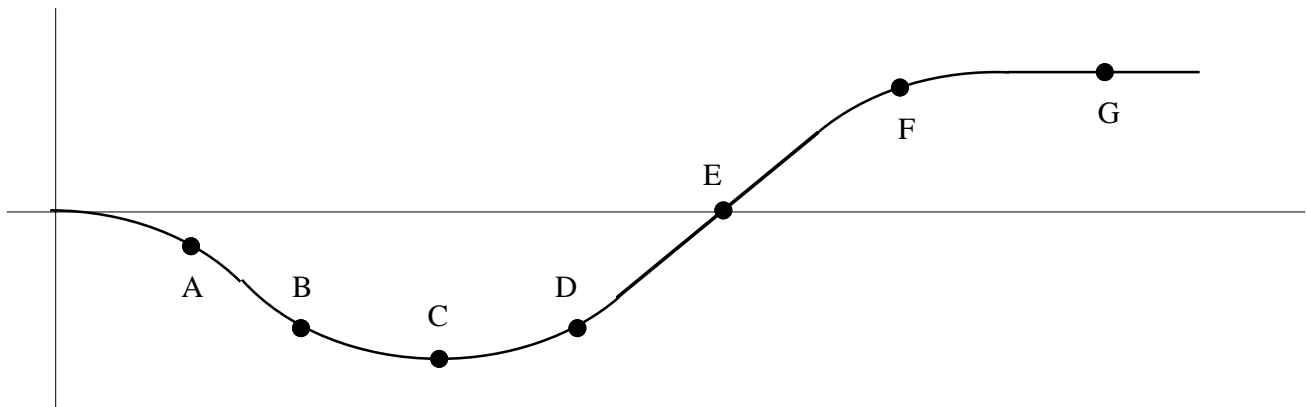


2. Which point or points on the graph—if any—show instants at which there was
 

<ol style="list-style-type: none"> <li>a. Uniform motion in the positive direction?</li> <li>b. Uniform motion in the negative direction?</li> <li>c. Rest?</li> <li>d. Positive acceleration with positive velocity?</li> <li>e. Negative velocity with positive acceleration?</li> </ol>	<ol style="list-style-type: none"> <li>f. Negative acceleration with positive velocity?</li> <li>g. Negative velocity with negative acceleration?</li> <li>h. Zero velocity and negative acceleration?</li> <li>i. Positive acceleration and zero velocity?</li> </ol>
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3. The plot above shows the **position vs. clock reading** of a body. Label the axes accordingly. Then label the following regions of the graph.
- When is the body traveling in the positive direction? (Label those segments “Positive velocity.”)
  - When is the body traveling in the negative direction? (Label those segments “Negative velocity.”)
  - When is the body at rest? (Label those segments or points “Rest.”)
  - When is the body undergoing positive acceleration? (Label those segments “Positive Acceleration.”)
  - When is the body undergoing negative acceleration? (Label those segments “Negative Acceleration.”)
  - When is the body undergoing zero acceleration? (Label those segments “UM.”)
  - When is the body speeding up? (Label those segments “Speeding Up.”) Notice that these are **not** identical to the place(s) labeled “Positive Acceleration.”
  - When is the body slowing down? (Label those segments “Slowing Down.”)



4. Which point or points on the graph—if any—show instants at which there was
- |  |  |
|--|--|
| a. Uniform motion in the positive direction?     | f. Negative acceleration with positive velocity? |
| b. Uniform motion in the negative direction?     | g. Negative velocity with negative acceleration? |
| c. Rest?   |  |
| d. Positive acceleration with positive velocity? | h. Zero velocity and negative acceleration?      |
| e. Negative velocity with positive acceleration? | i. Positive acceleration and zero velocity?      |