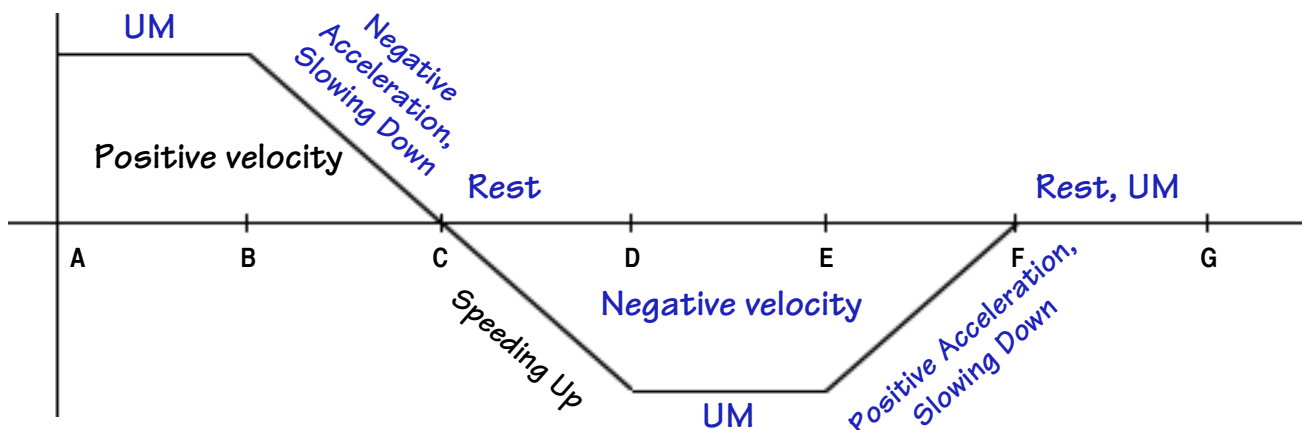


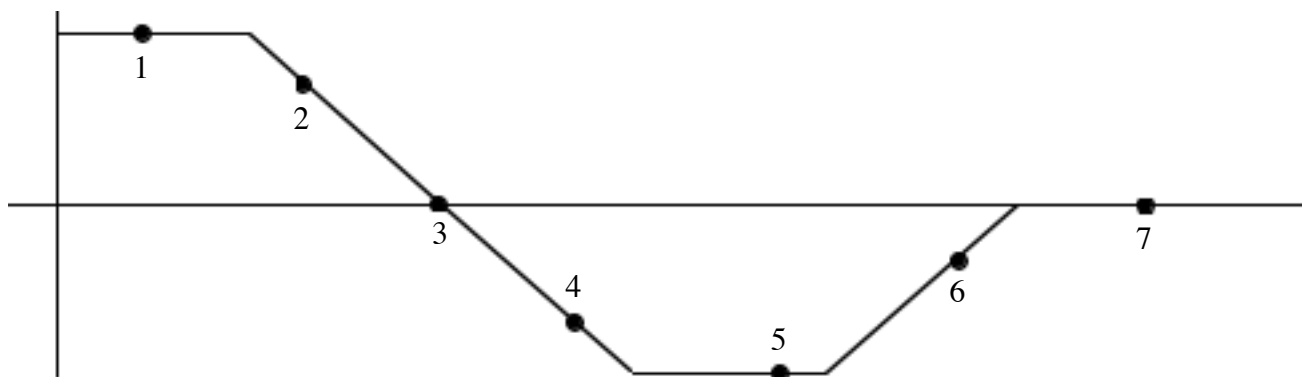
PhyzJob: What's Goin' On?

verbal interpretations of motion graphs
(with apologies to marvin gaye)



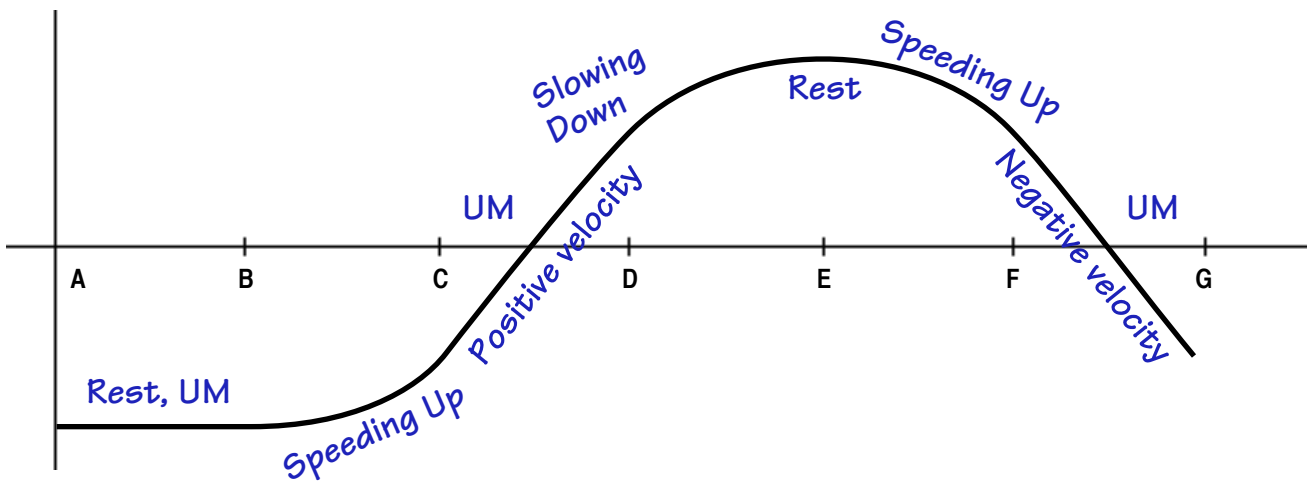
1. The plot above shows the **velocity vs. clock reading** of a body. Label the axes accordingly. Then identify and label the following regions of the graph.

- A-C a. When is the body traveling in the positive direction? (Label those segments "Positive velocity.")
- C-F b. When is the body traveling in the negative direction? (Label those segments "Negative velocity.")
- C, F-G c. When is the body at rest? (Label those segments or points "Rest.")
- AB, DE, FG d. When is the body undergoing zero acceleration? (Label those segments "UM.")
- C-D e. When is the body speeding up? (Label those segments "Speeding Up.")
- B-C, E-F f. When is the body slowing down? (Label those segments "Slowing Down.")



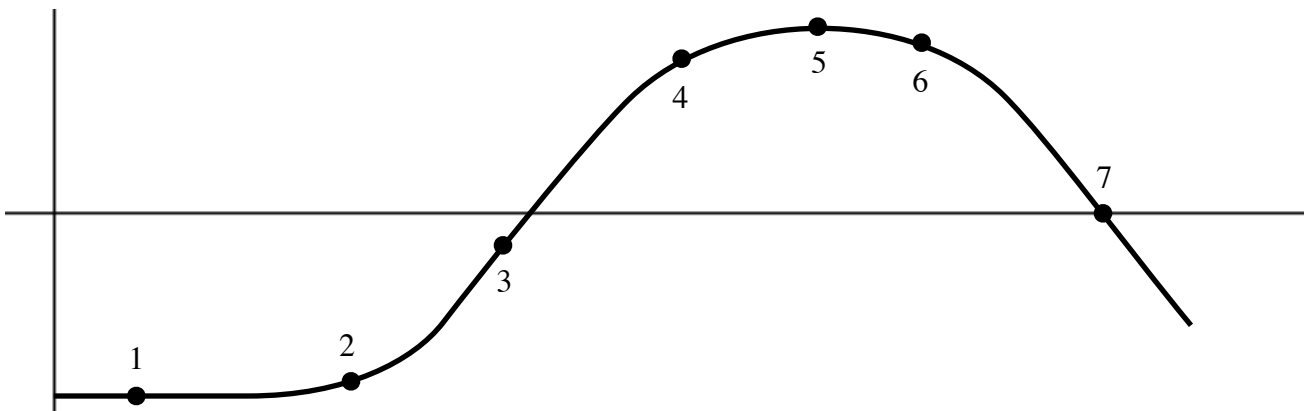
2. Which point or points on the graph—*if any*—show instants at which there was

- 1 a. Uniform motion in the positive direction?
- 5 b. Uniform motion in the negative direction?
- 3, 7 c. Rest?
- ∅ d. Positive velocity and speeding up?
- 4 e. Negative velocity and speeding up?
- 2 f. Positive velocity and slowing down?
- 6 g. Negative velocity and slowing down?
- 3 h. Acceleration while at rest?



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.

- B-E a. When is the body traveling in the positive direction? (Label those segments "Positive velocity.")
E-G b. When is the body traveling in the negative direction? (Label those segments "Negative velocity.")
A-B, E c. When is the body at rest? (Label those segments or points "Rest.")
AB, CD, FG d. When is the body undergoing zero acceleration? (Label those segments "UM.")
B-C, E-F e. When is the body speeding up? (Label those segments "Speeding Up.")
D-E f. When is the body slowing down? (Label those segments "Slowing Down.")



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

- 3 a. Uniform motion in the positive direction? 7 b. Uniform motion in the negative direction?
1, 5 c. Rest? 2 d. Positive velocity and speeding up?
6 e. Negative velocity and speeding up? 4 f. Positive velocity and slowing down?
∅ g. Negative velocity and slowing down? 5 h. Acceleration while at rest?