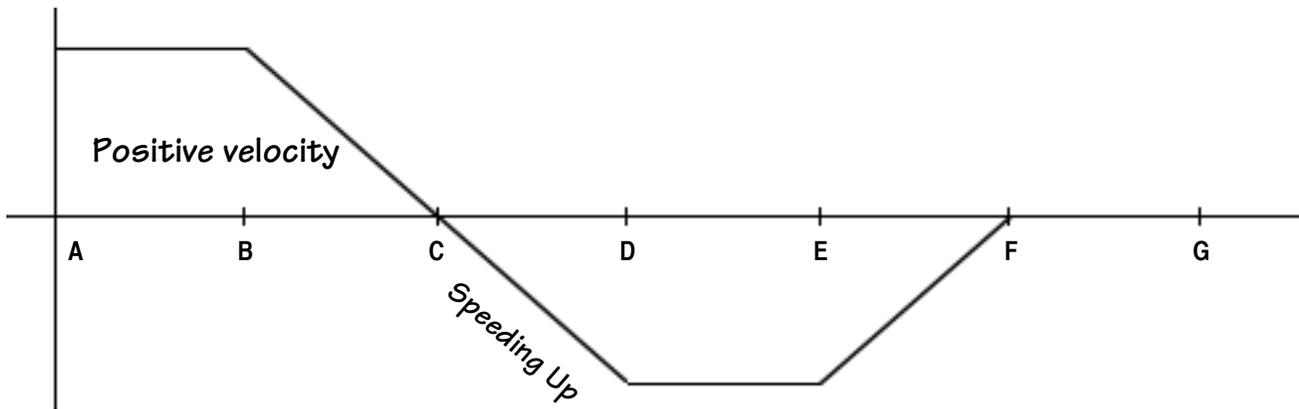


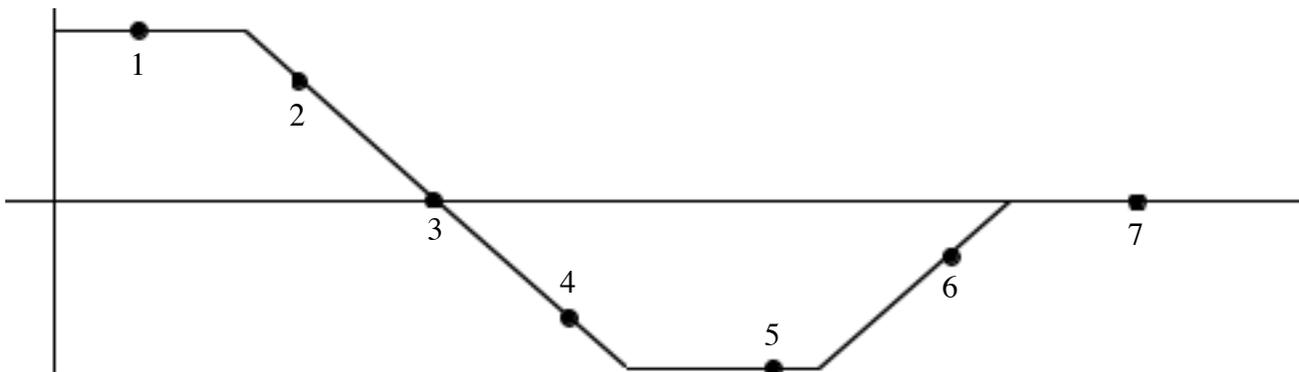
# PhyzJob: What's Goin' On?

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



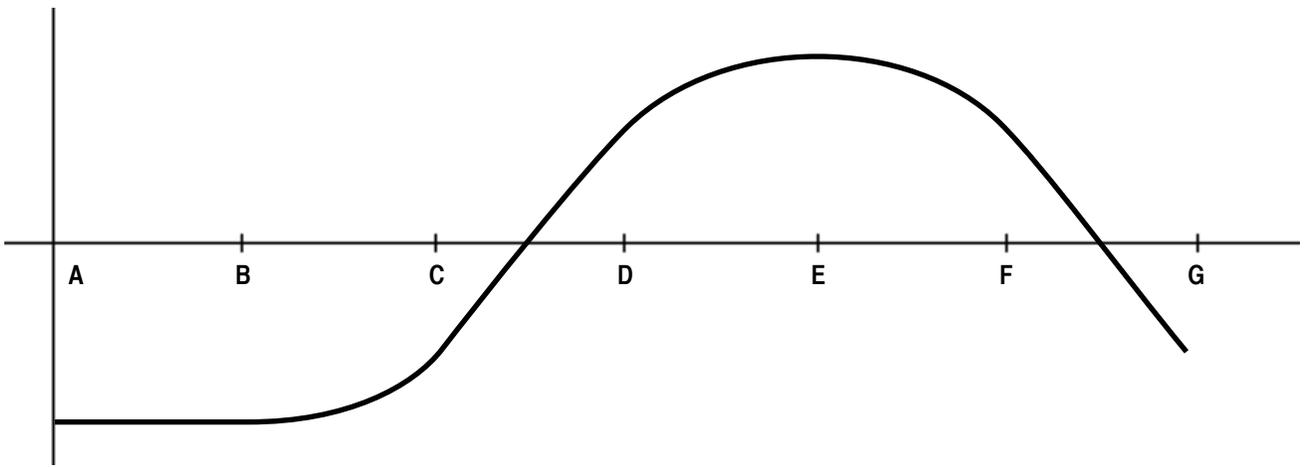
1. The plot above shows the **velocity vs. clock reading** of a body. Label the axes accordingly. Then identify **and label** the following regions of the graph.

- A-C a. When is the body traveling in the positive direction? (Label those segments "Positive velocity.")
- 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 zero acceleration? (Label those segments "UM.")
- C-D e. When is the body speeding up? (Label those segments "Speeding Up.")
- f. When is the body slowing down? (Label those segments "Slowing Down.")



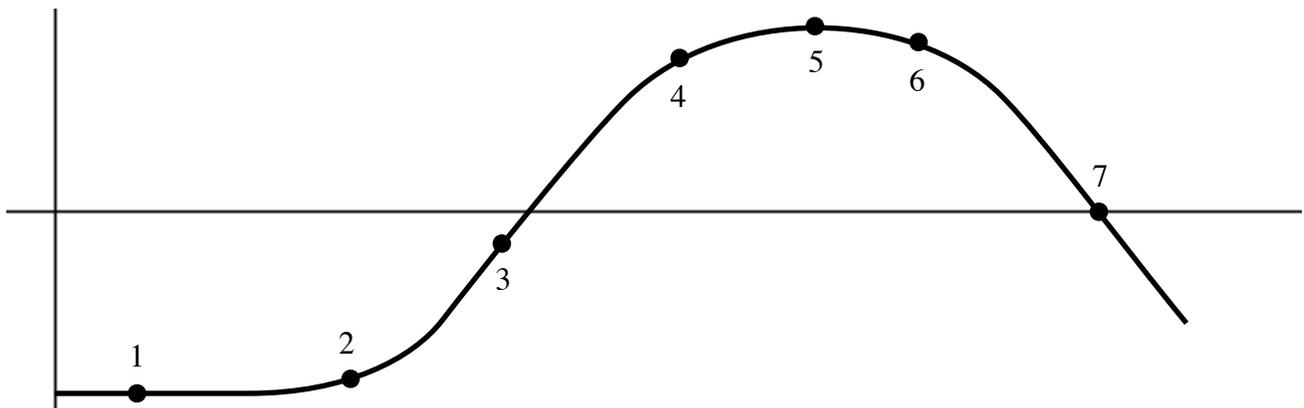
2. Which point or points on the graph—**if any**—show instants at which there was

- |  |   |
|--|---|
| <u>    </u> a. Uniform motion in the positive direction? | <u>  5  </u> b. Uniform motion in the negative direction? |
| <u>    </u> c. Rest?                                     | <u>    </u> d. Positive velocity and speeding up?         |
| <u>    </u> e. Negative velocity and speeding up?        | <u>  2  </u> f. Positive velocity and slowing down?       |
| <u>    </u> g. Negative velocity and slowing down?       | <u>    </u> 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.

- \_\_\_\_\_ 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.")
- \_\_\_\_\_ c. When is the body at rest? (Label those segments or points "Rest.")
- \_\_\_\_\_ d. When is the body undergoing zero acceleration? (Label those segments "UM.")
- \_\_\_\_\_ 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? \_\_\_\_\_ b. Uniform motion in the negative direction?
- \_\_\_\_\_ c. Rest? \_\_\_\_\_ d. Positive velocity and speeding up?
- 6 e. Negative velocity and speeding up? \_\_\_\_\_ f. Positive velocity and slowing down?
- \_\_\_\_\_ g. Negative velocity and slowing down? \_\_\_\_\_ h. Acceleration while at rest?