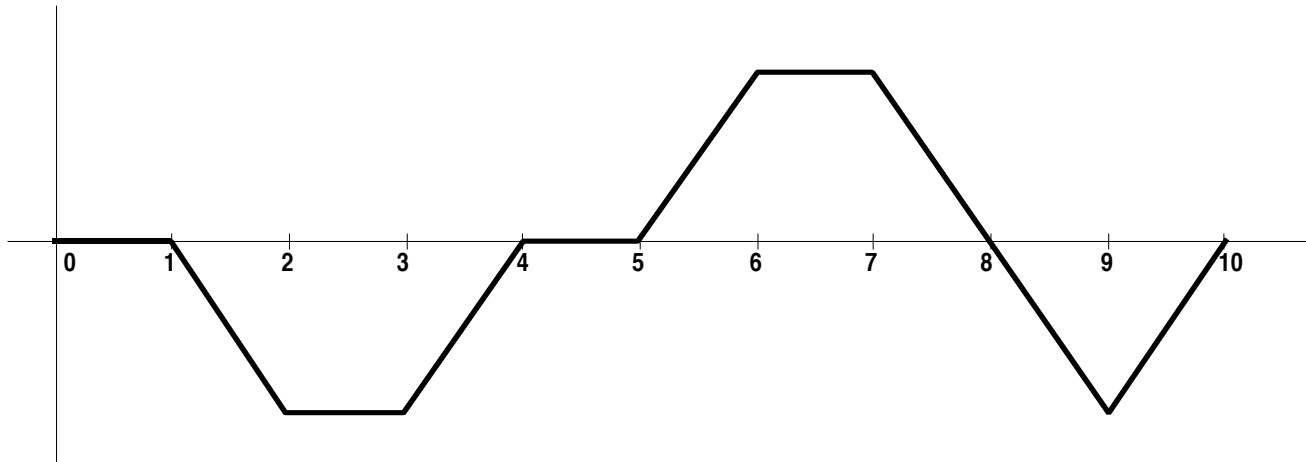


PhyzJob: How's it Goin'?

verbal interpretations of motion graphs



1. The plot above shows the **velocity vs. clock reading** of a body. Label the axes accordingly. Consider the following descriptions of motion.

- Rest
- Uniform motion in the positive direction
- Moving in the positive direction and speeding up
- Moving in the negative direction, speeding up
- Uniform motion in the negative direction
- Moving in the positive direction, slowing down
- Moving in the negative direction, slowing down

Use these descriptions to identify the motion depicted in the graph

a. between $t=0$ and $t=1$ s.

b. between $t=1$ s and $t=2$ s. **Moving in the negative direction, speeding up**

c. between $t=2$ s and $t=3$ s.

d. between $t=3$ s and $t=4$ s.

e. between $t=4$ s and $t=5$ s. **Rest**

f. between $t=5$ s and $t=6$ s.

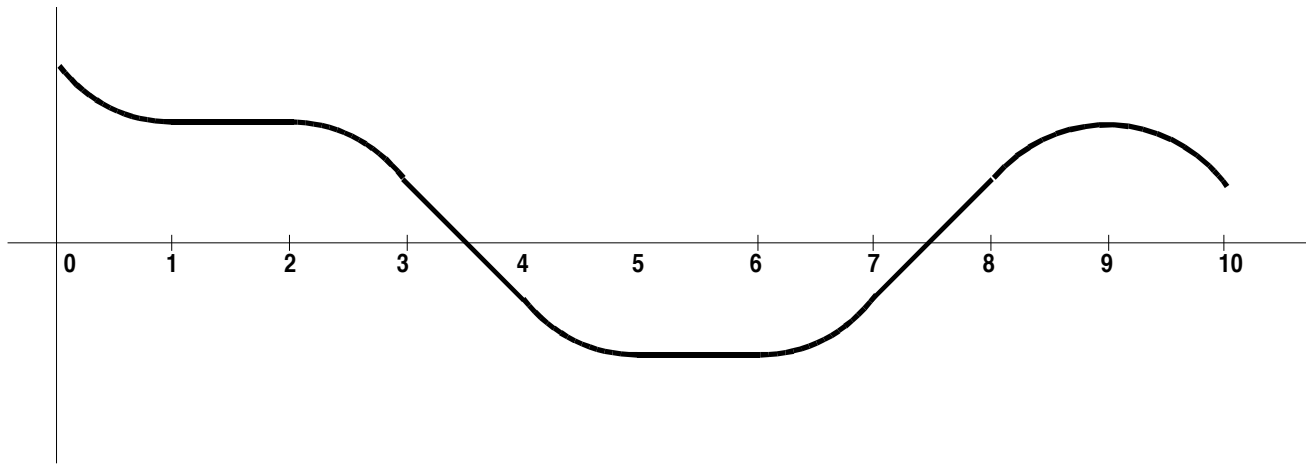
g. between $t=6$ s and $t=7$ s.

h. between $t=7$ s and $t=8$ s.

i. between $t=8$ s and $t=9$ s.

j. between $t=9$ s and $t=10$ s.

2. Identify the nature of the velocity and the acceleration of each interval as positive, negative, or zero. Go back and add this to the description you provided for each interval in the space above. For example, during interval a ($t=0$ to $t=1$ s) the velocity is zero and the acceleration is zero; during interval d (from $t=3$ s to $t=4$ s), the velocity is negative and the acceleration is positive.



3. The plot above shows the **position vs. clock reading** of a body. Label the axes accordingly. Consider the following descriptions of motion.

- Rest
- Uniform motion in the positive direction
- Moving in the positive direction and speeding up
- Moving in the negative direction, speeding up
- Uniform motion in the negative direction
- Moving in the positive direction, slowing down
- Moving in the negative direction, slowing down

Use these descriptions to identify the motion depicted in the graph

a. between $t=0$ and $t=1$ s.

b. between $t=1$ s and $t=2$ s.

c. between $t=2$ s and $t=3$ s. **Moving in the negative direction, speeding up**

d. between $t=3$ s and $t=4$ s.

e. between $t=4$ s and $t=5$ s.

f. between $t=5$ s and $t=6$ s. **Rest**

g. between $t=6$ s and $t=7$ s.

h. between $t=7$ s and $t=8$ s.

i. between $t=8$ s and $t=9$ s.

j. between $t=9$ s and $t=10$ s.

4. Identify the nature of the velocity and the acceleration of each interval as positive, negative, or zero. Go back and add this to the description you provided for each interval in the space above. For example, during interval a ($t=0$ to 1 s) the velocity is negative and the acceleration is positive; during interval d (from $t=3$ s to 4 s), the velocity is negative and the acceleration is zero.