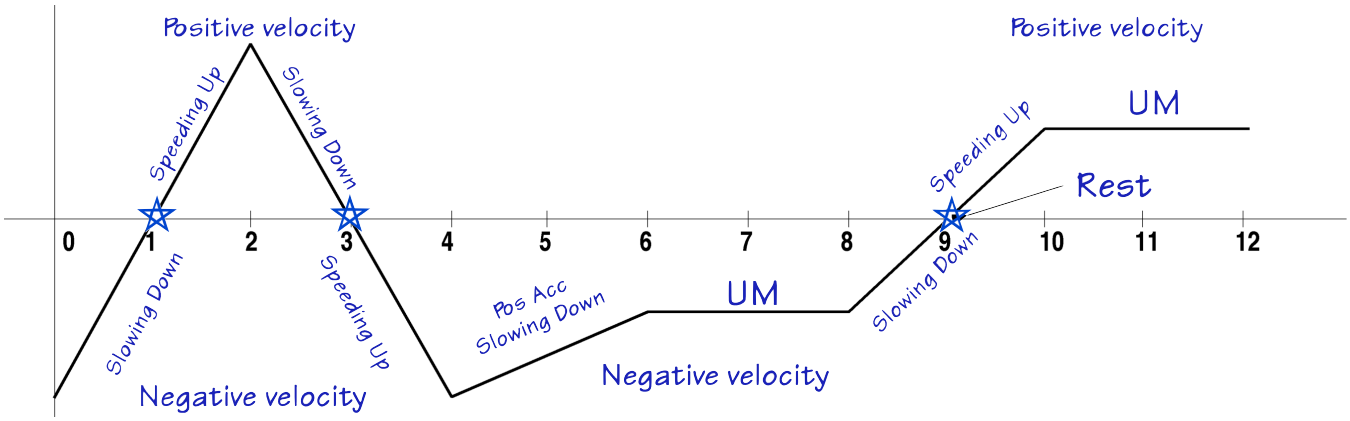
PhyzJob: What's Goin' On, Too?

even more verbal interpretations of motion graphs

Felix



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.")

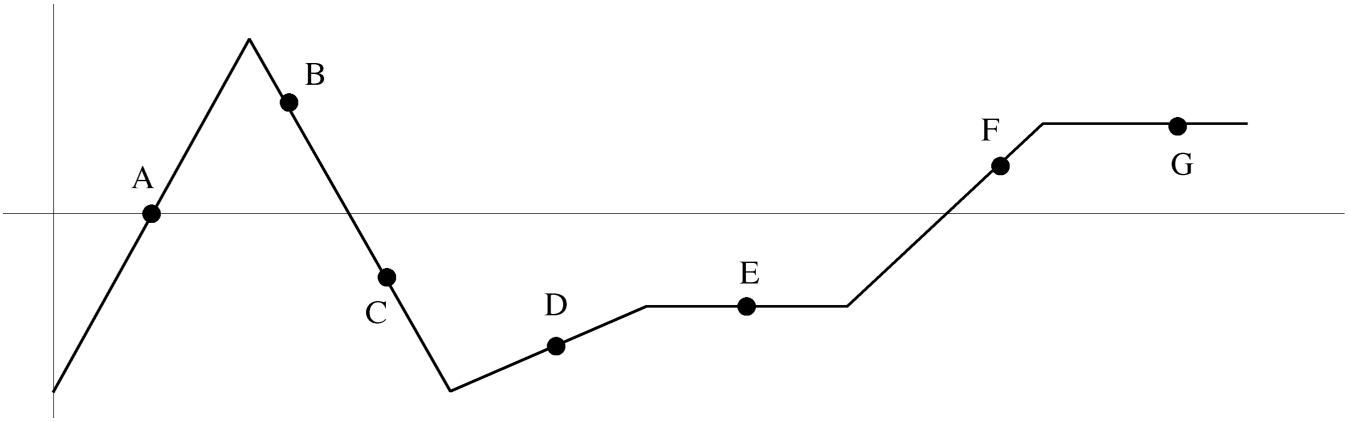
c. When is the body at rest? (Label those segments or points "Rest.")

d. When is the body undergoing zero acceleration? (Label those segments "UM.")

e. When is the body speeding up? (Label those segments "Speeding Up.")

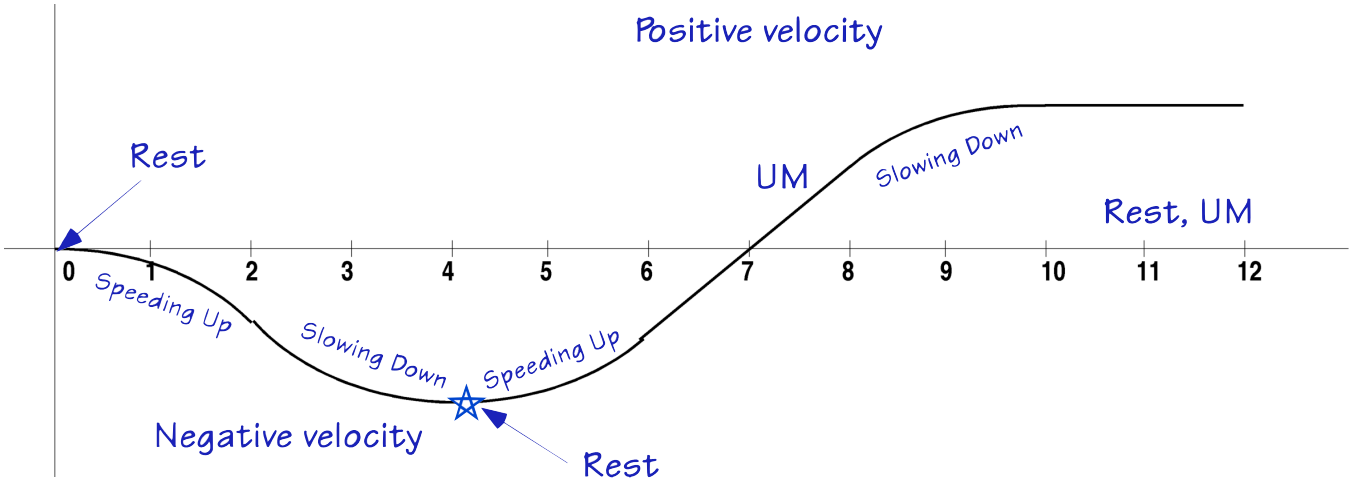
f. When is the body slowing down? (Label those segments "Slowing Down.")

g. When is the body accelerating while also at rest? Draw a star on any such point/s.



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

a. Uniform motion in the positive direction?	A	B	C	D	E	F	**G**	None
b. Uniform motion in the negative direction?	A	B	C	D	**E**	F	G	None
c. Rest?	**A**	B	C	D	E	F	G	None
d. Positive velocity while speeding up?	A	B	C	D	E	**F**	G	None
e. Negative velocity while speeding up?	A	B	**C**	D	E	F	G	None
f. Positive velocity while slowing down?	A	**B**	C	D	E	F	G	None
g. Negative velocity while slowing down?	A	B	C	**D**	E	F	G	None



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.")

b. When is the body traveling in the negative direction? (Label those segments "Negative velocity.")

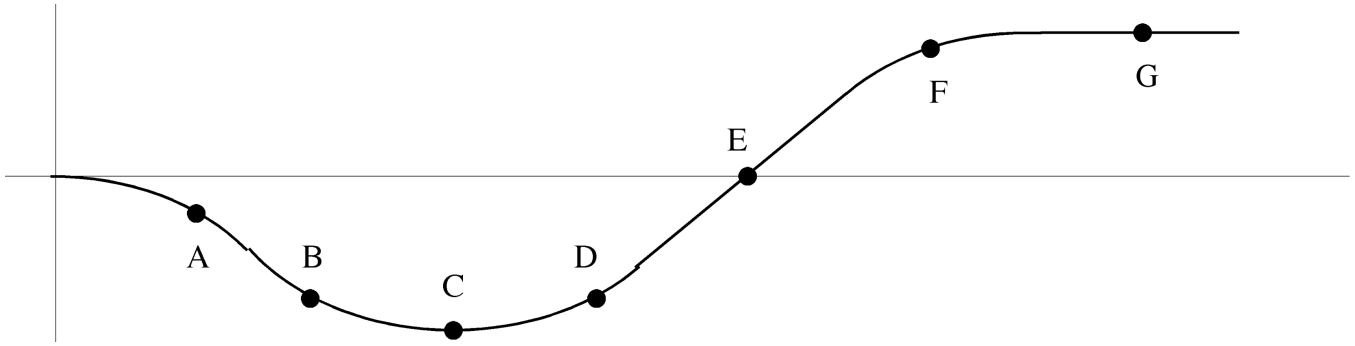
c. When is the body at rest? (Label those segments or points "Rest.")

d. When is the body undergoing zero acceleration? (Label those segments "UM.")

e. When is the body speeding up? (Label those segments "Speeding Up.")

f. When is the body slowing down? (Label those segments "Slowing Down.")

g. When is the body accelerating while also at rest? Draw a star on any such point/s.



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

a. Uniform motion in the positive direction?	A	B	C	D	**E**	F	G	None
b. Uniform motion in the negative direction?	A	B	C	D	E	F	G	**None**
c. Rest?	A	B	**C**	D	E	F	**G**	None
d. Positive velocity while speeding up?	A	B	C	**D**	E	F	G	None
e. Negative velocity while speeding up?	**A**	B	C	D	E	F	G	None
f. Positive velocity while slowing down?	A	B	C	D	E	**F**	G	None
g. Negative velocity while slowing down?	A	**B**	C	D	E	F	G	None