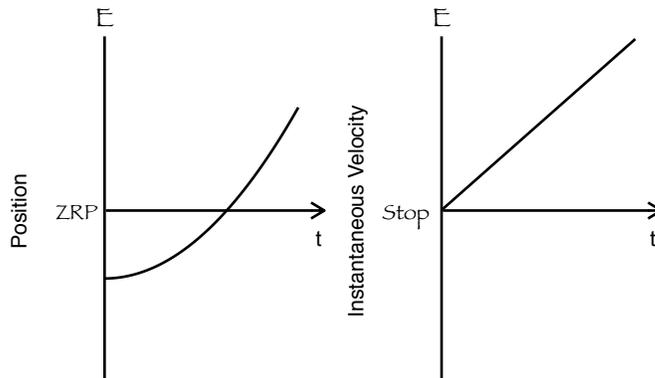


Lesson 3.9. Practice with Motion Graphs

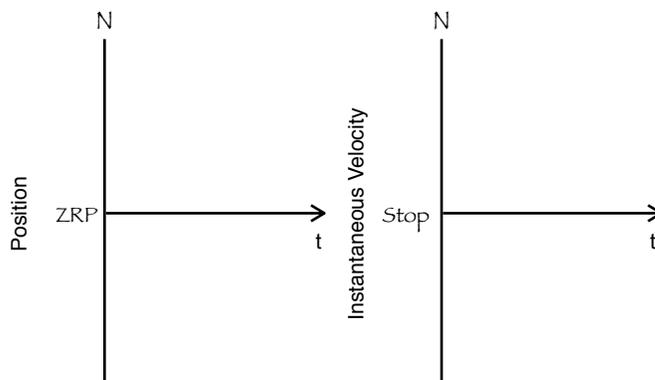
- 1) Carefully read each of the following descriptions of motion.
- 2) Neatly, **in pencil**, sketch a trend line on the position graph and the corresponding trend line on the velocity graph.
  - a) It should be **obvious** whether the trend line is curved or straight.
  - b) For curved trend lines, it should be **obvious** which part is steep, which is shallow, and which is flat.
- 3) I will not read messy work and I will not read work done in ink.

*Example*

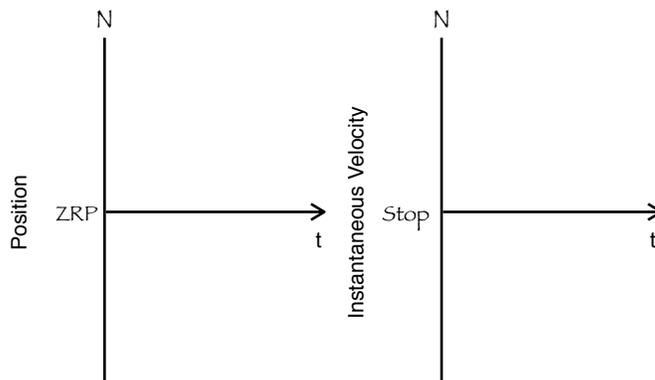
*Starting at rest somewhere west of the ZRP, an object traveled eastward with increasing velocity. It passed the ZRP, ending somewhere east of the ZRP and traveling fast.*



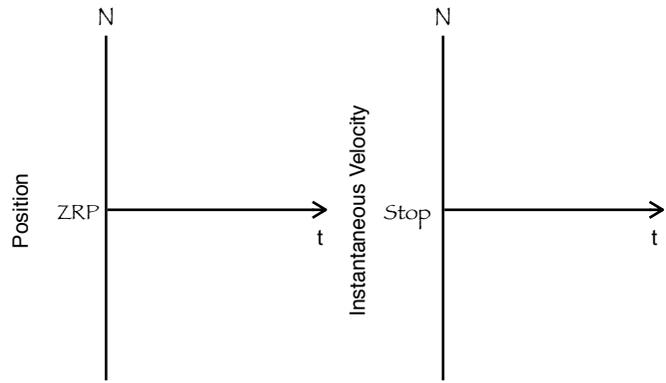
- 1) Starting somewhere north of the ZRP and traveling fast, an object traveled southward with decreasing velocity. It passed the ZRP, ending at rest somewhere south of the ZRP.



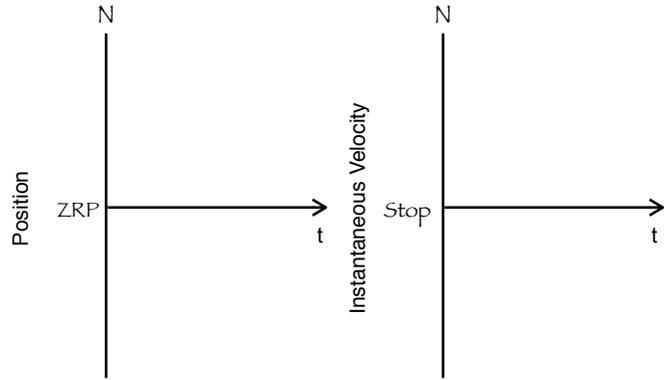
- 2) Starting at the ZRP and moving fast, an object traveled southward with decreasing velocity, ending at rest somewhere south of the ZRP.



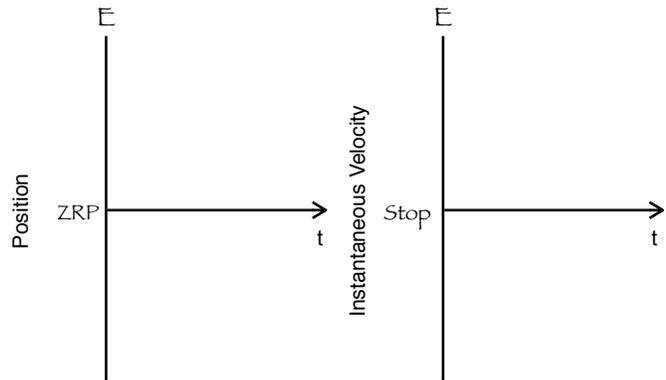
3) Starting at rest somewhere south of the ZRP, an object traveled northward with increasing velocity, ending at the ZRP and moving fast.



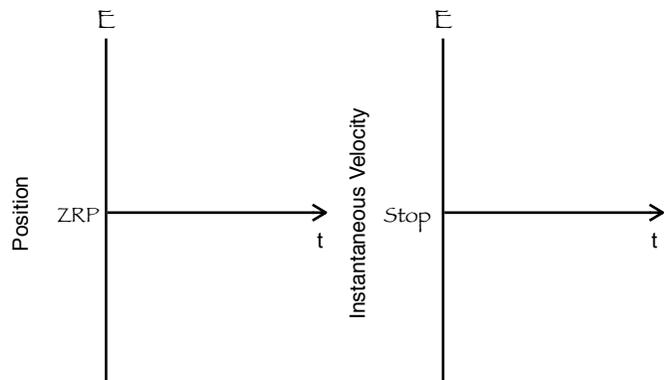
4) Starting at rest at the ZRP, an object traveled northward with increasing velocity, ending somewhere north of the ZRP and traveling fast.



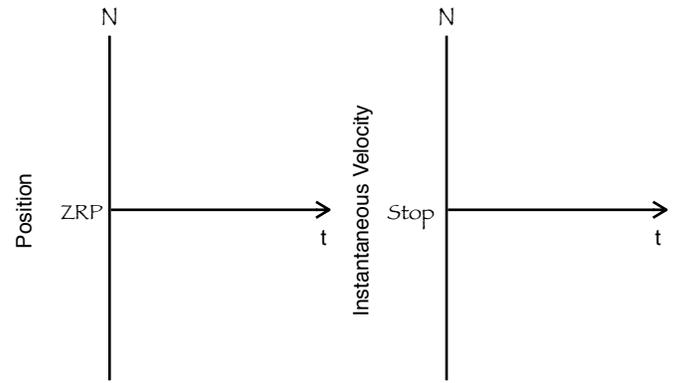
5) Starting somewhere west of the ZRP and moving fast, an object traveled eastward with decreasing velocity. It passed the ZRP, ending at rest somewhere east of the ZRP.



6) Starting at the ZRP and moving fast, an object traveled eastward with decreasing velocity, ending at rest somewhere east of the ZRP.



- 7) Starting at rest somewhere north of the ZRP, an object traveled southward with increasing velocity. It passed the ZRP, ending somewhere south of the ZRP and moving fast.



- 8) Starting at rest at the ZRP, an object traveled southward with increasing velocity, ending somewhere south of the ZRP and traveling fast.

