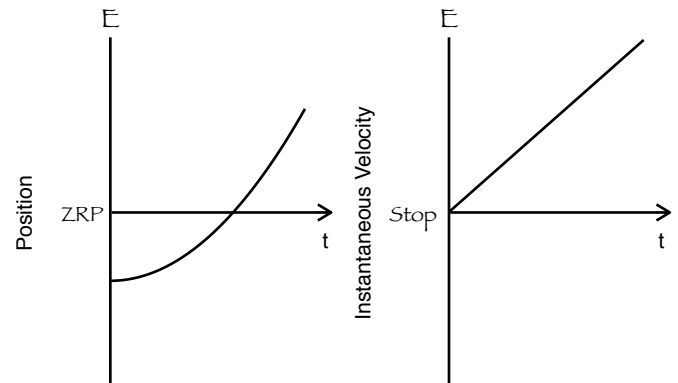


Lesson 3.9. Practice with Motion Graphs

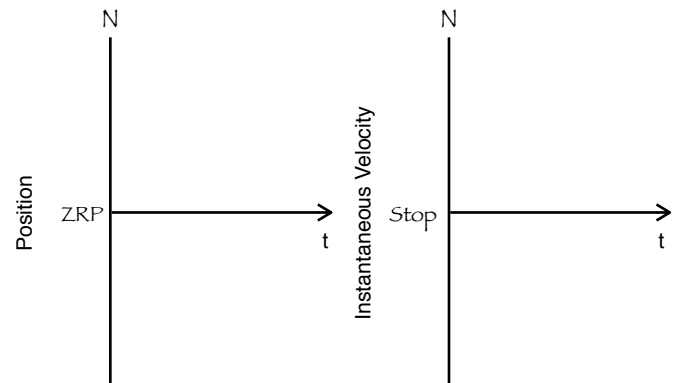
- 1) Carefully read each of the following descriptions of motion.
- 2) Neatly, **in pencil**, sketch a trend line on the position graph and the corresponding trend line on the velocity graph.
  - a) It should be **obvious** whether the trend line is curved or straight.
  - b) For curved trend lines, 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*

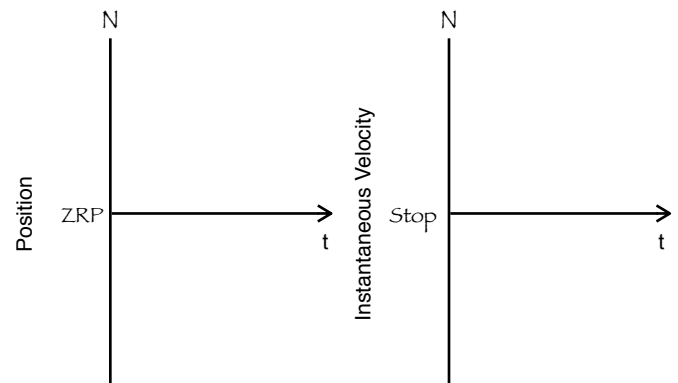
*Starting at rest somewhere west of the ZRP, an object traveled eastward with increasing velocity. It passed the ZRP, ending somewhere east of the ZRP and traveling fast.*



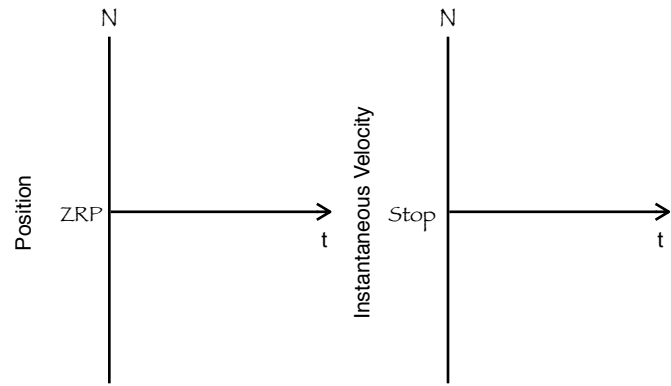
- 1) Starting somewhere north of the ZRP and traveling fast, an object traveled southward with decreasing velocity. It passed the ZRP, ending at rest somewhere south of the ZRP.



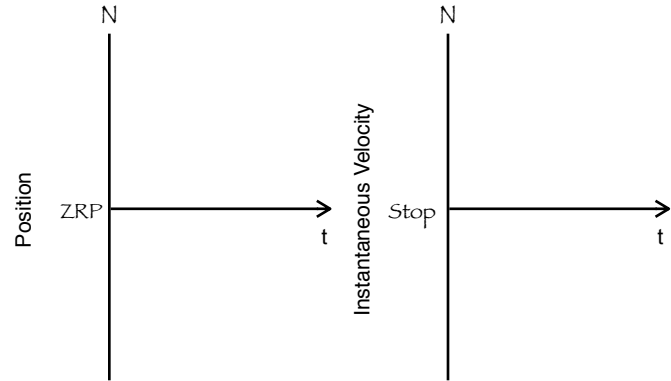
- 2) Starting at the ZRP and moving fast, an object traveled southward with decreasing velocity, ending at rest somewhere south of the ZRP.



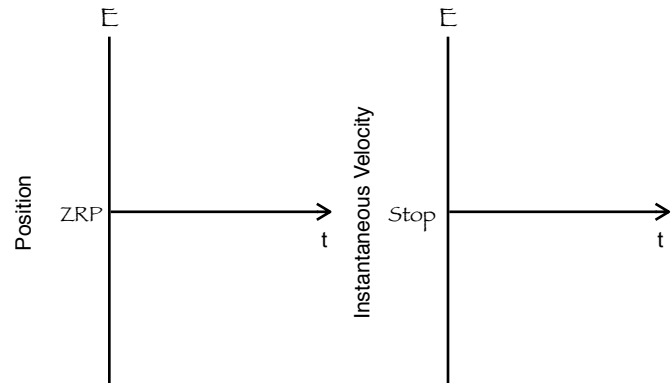
- 3) Starting at rest somewhere south of the ZRP, an object traveled northward with increasing velocity, ending at the ZRP and moving fast.



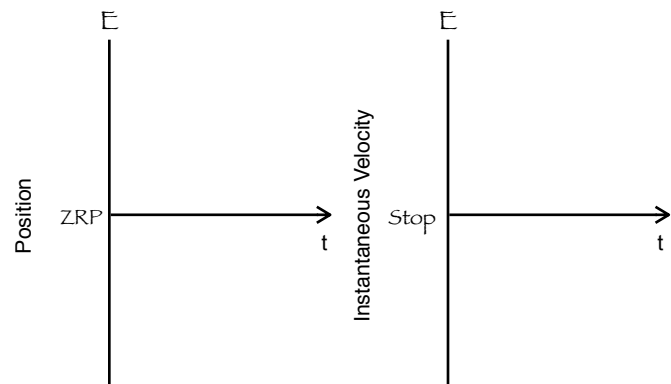
- 4) Starting at rest at the ZRP, an object traveled northward with increasing velocity, ending somewhere north of the ZRP and traveling fast.



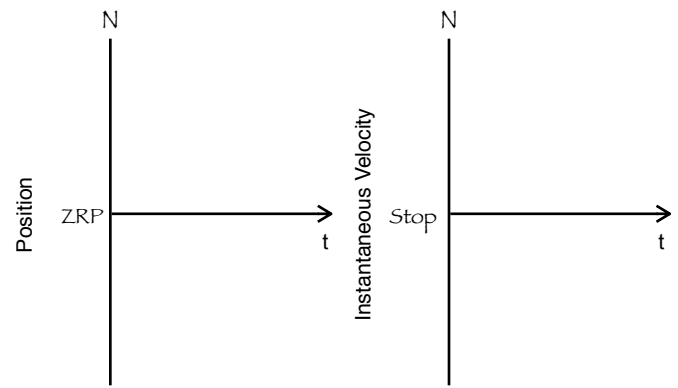
- 5) Starting somewhere west of the ZRP and moving fast, an object traveled eastward with decreasing velocity. It passed the ZRP, ending at rest somewhere east of the ZRP.



- 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.

