

1. If a position vs. time plot is rising in time (but not in such a way as to produce a vertical line on the graph) then we can know for certain that

a) Position is constant

b) Acceleration is changing

c) It has a velocity < 0 ; and the velocity is changing.

d) Velocity is changing

e) Velocity is constant

f) We can't know any of these for certain.

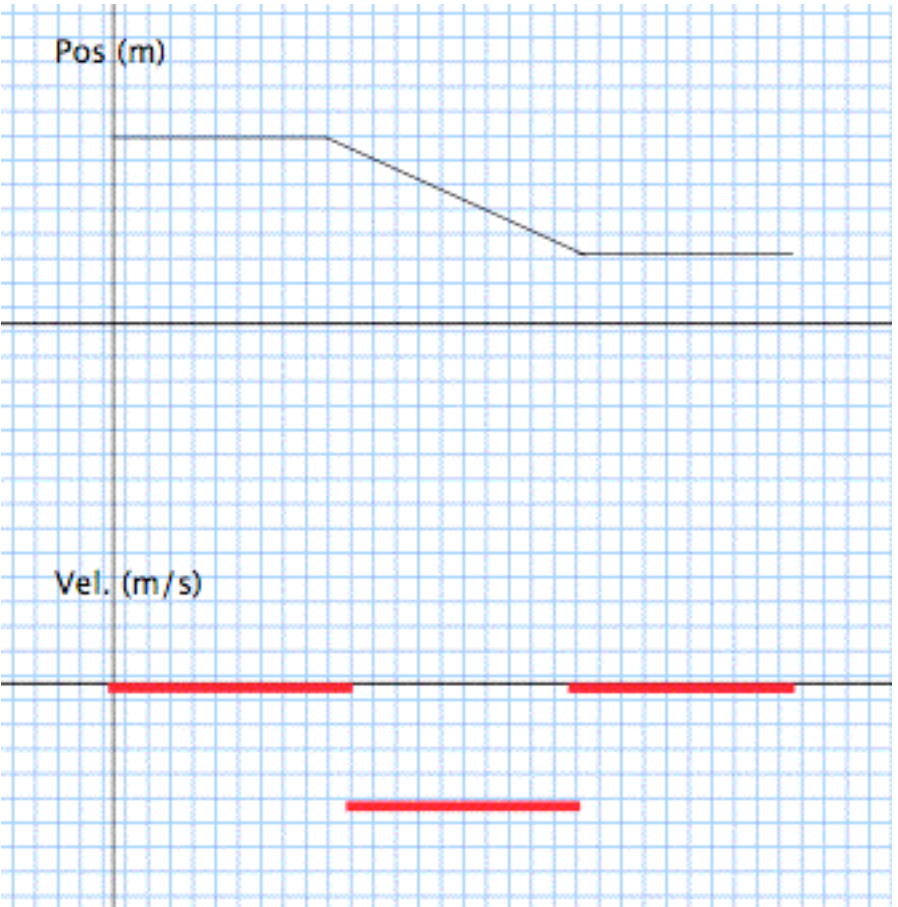
g) Acceleration is constant

h) It has a velocity > 0 ; but we don't know, if the velocity is constant or not.

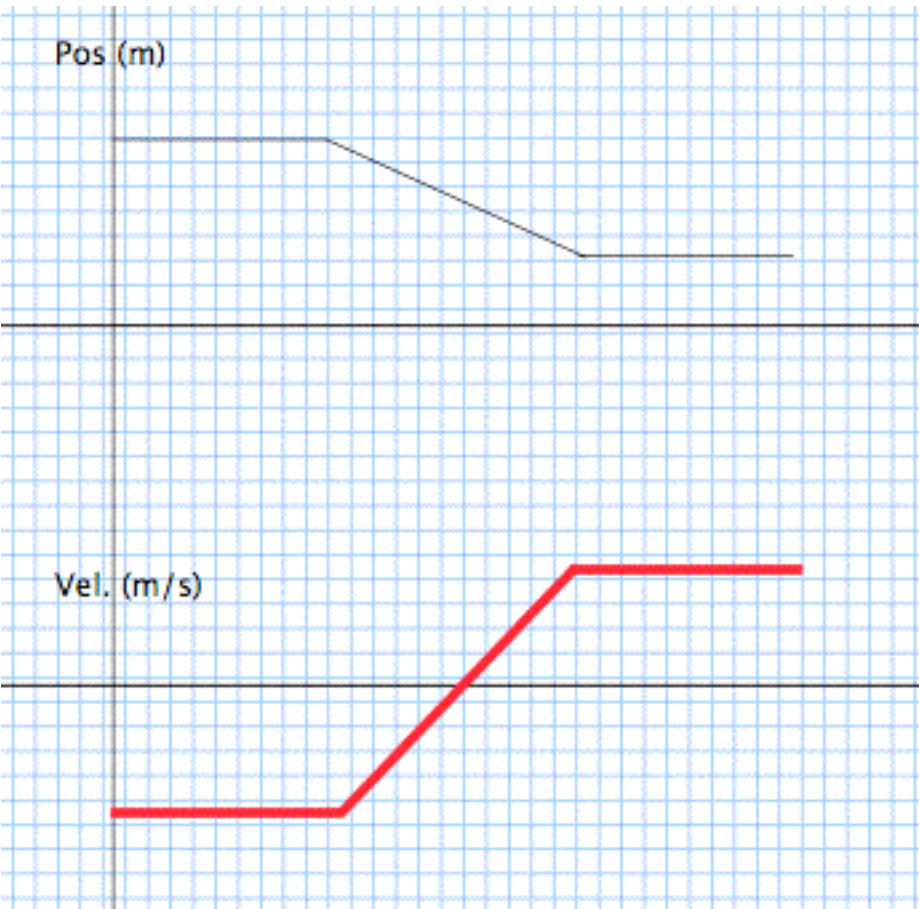
2. This question shows many graphs of Position vs. Time and Velocity vs. Time.

Which graph best shows the Position and Velocity graphs matching the same motion? There are seven graphs from which to choose.

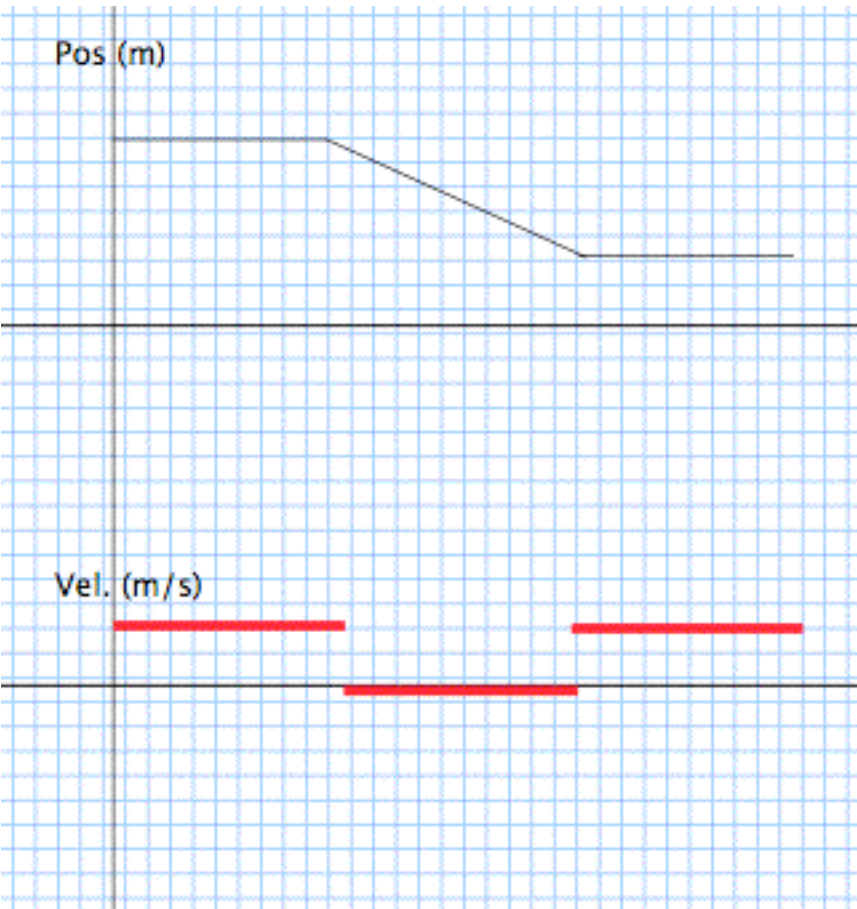
a)



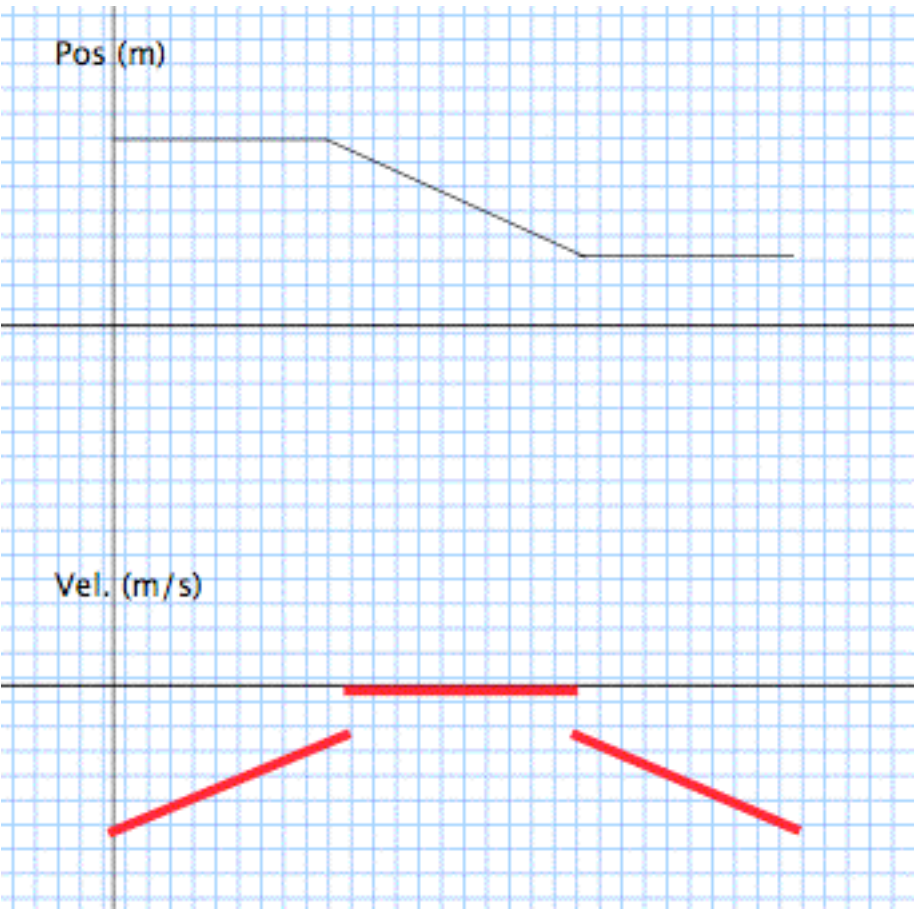
b)



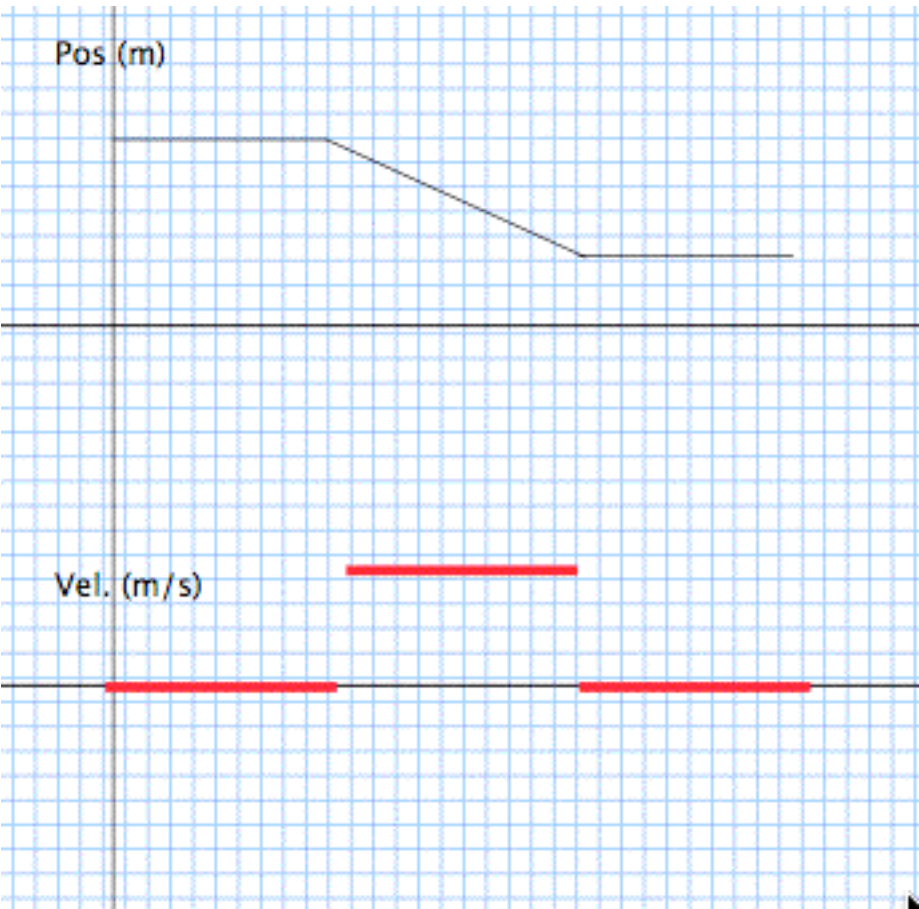
c)



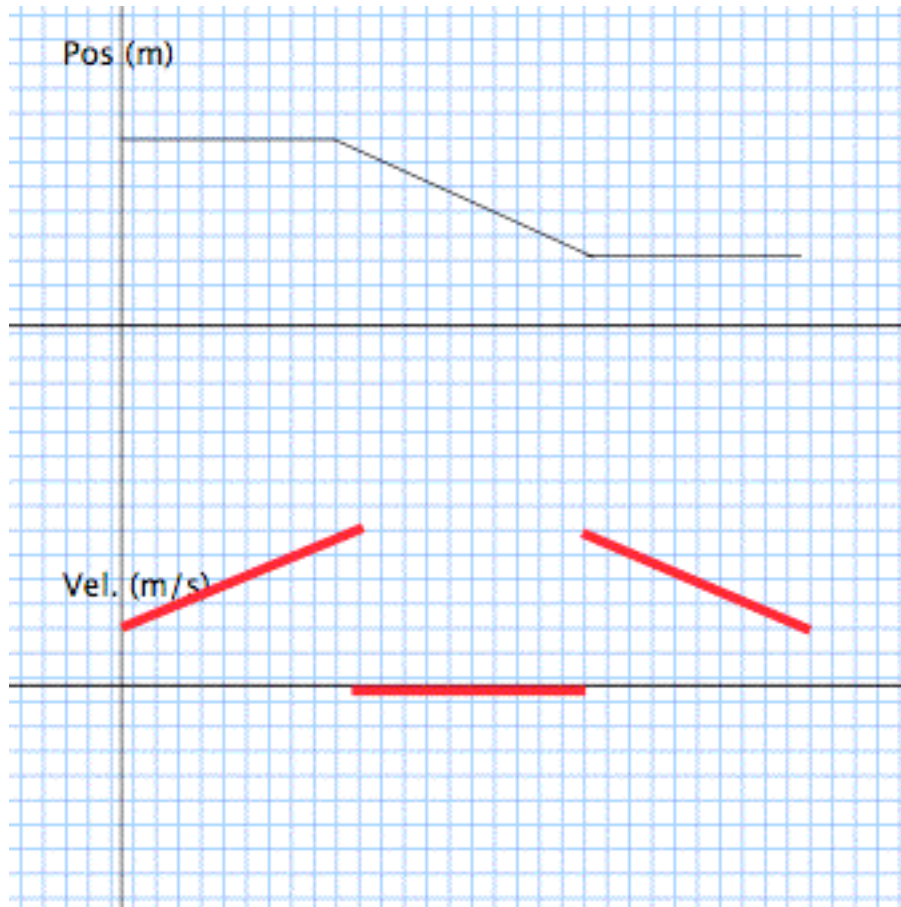
d)



e)



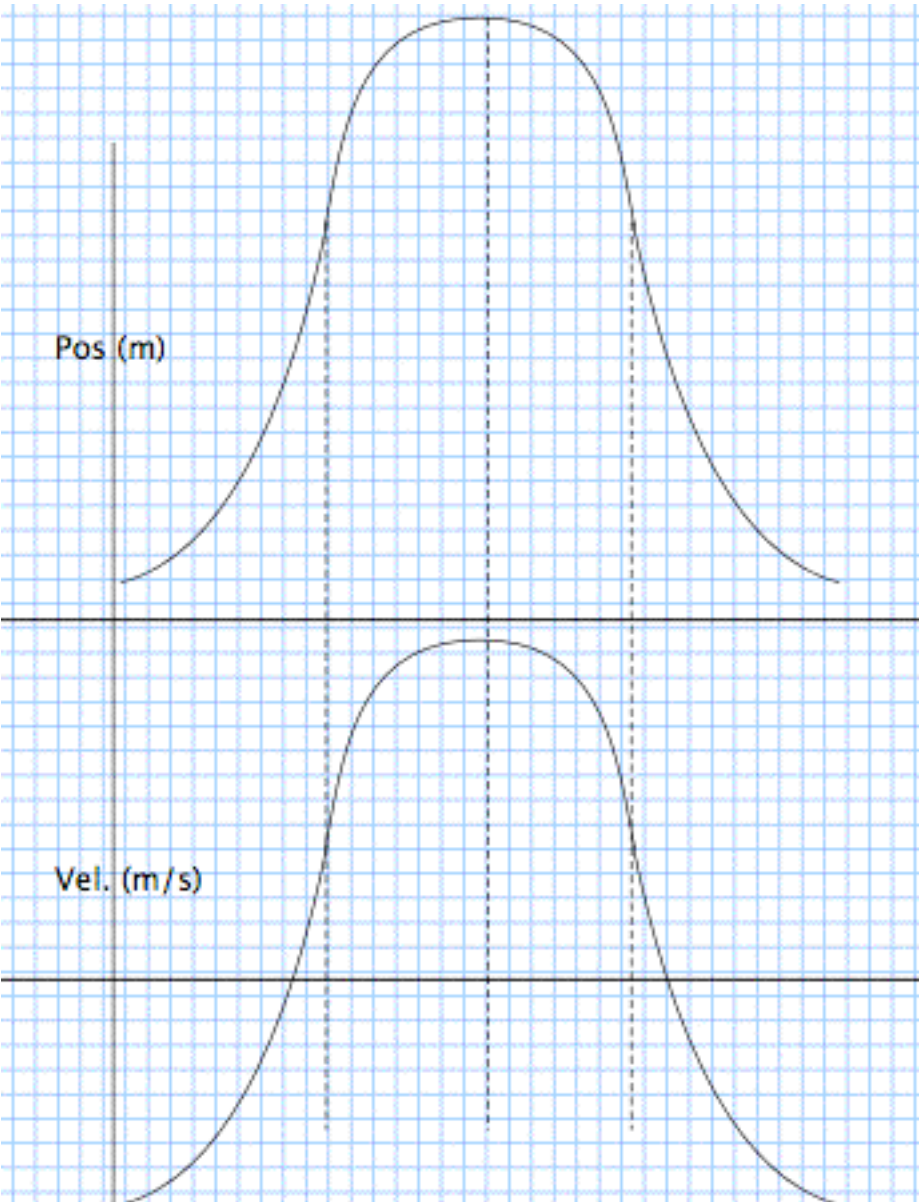
f)



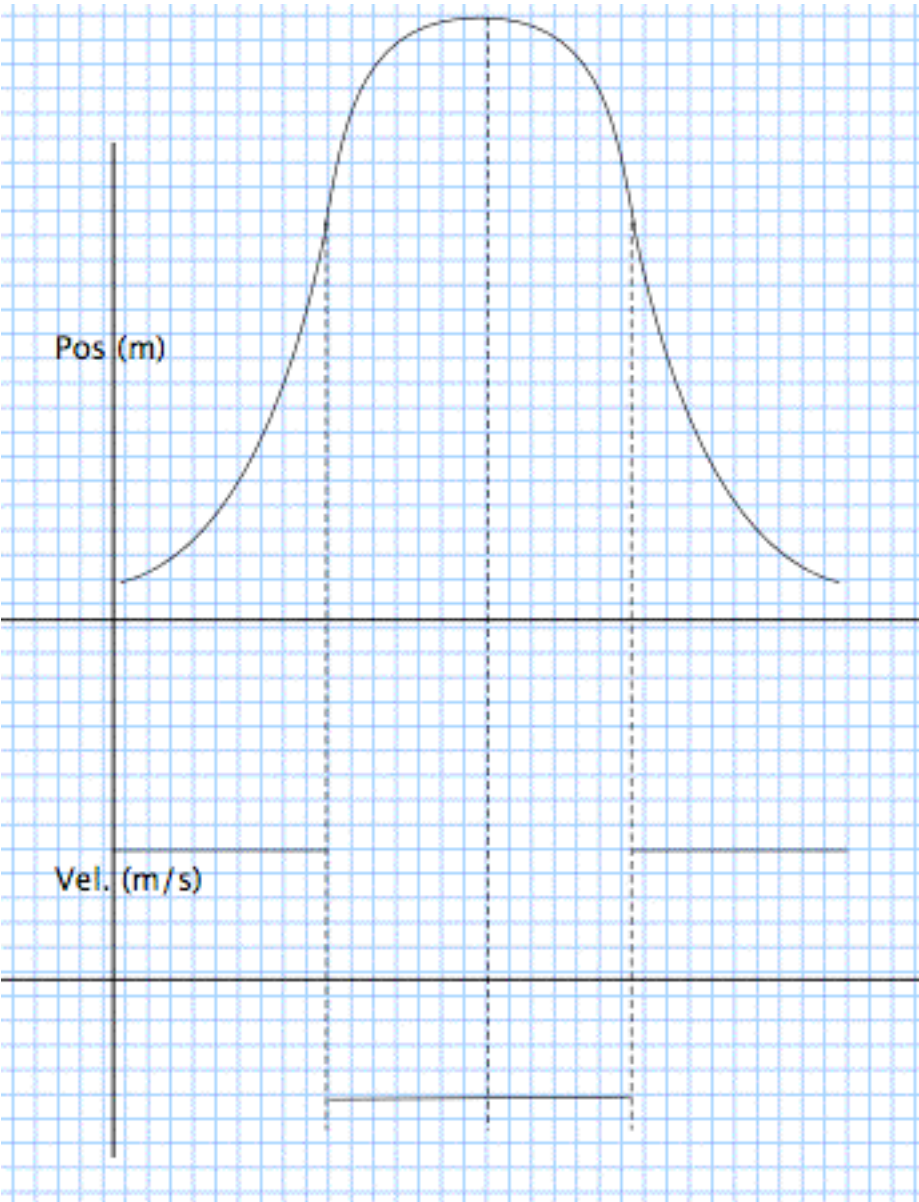
3. This question shows many graphs of Position vs. Time and Velocity vs. Time. The Position graph is made of three sections of constant acceleration.

Which graph best shows the Position and Velocity graphs matching the same motion? There are six graphs from which to choose.

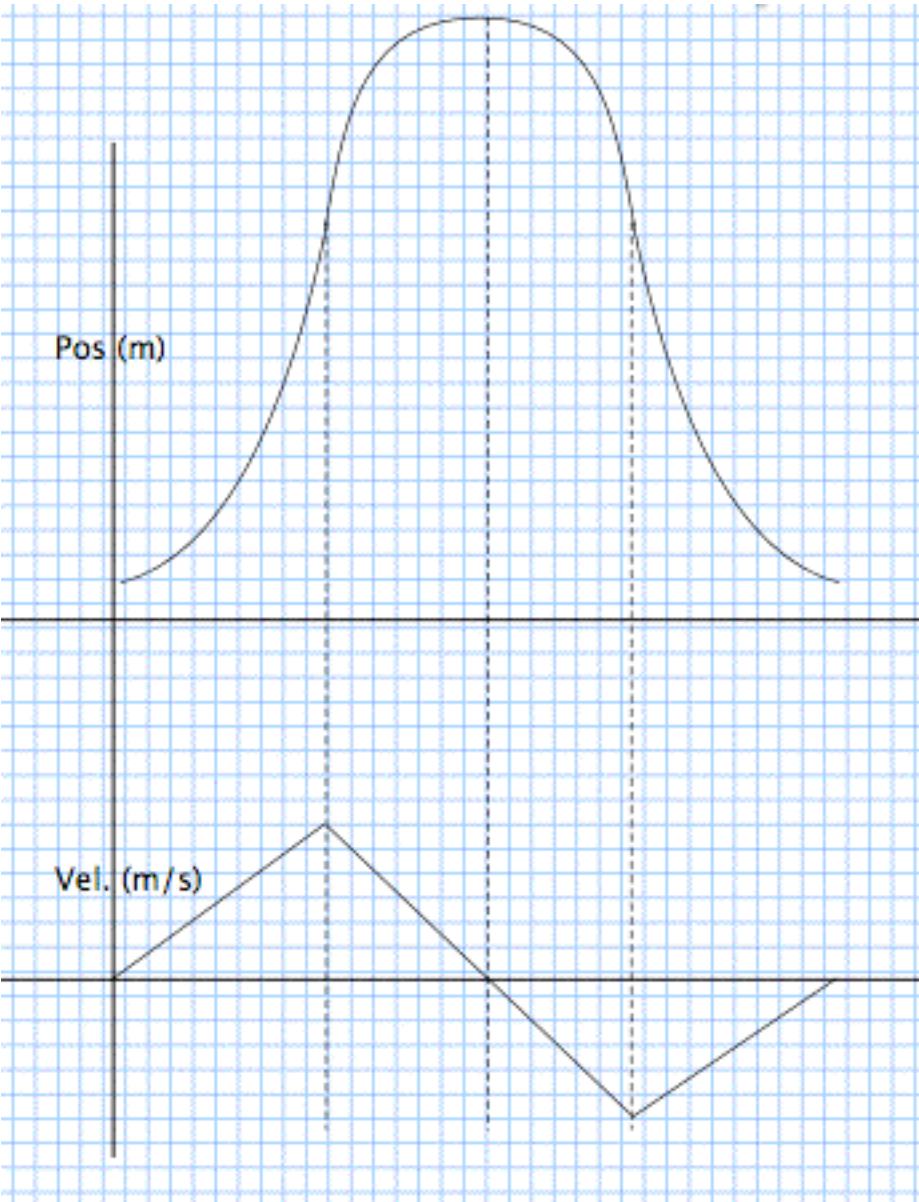
a)



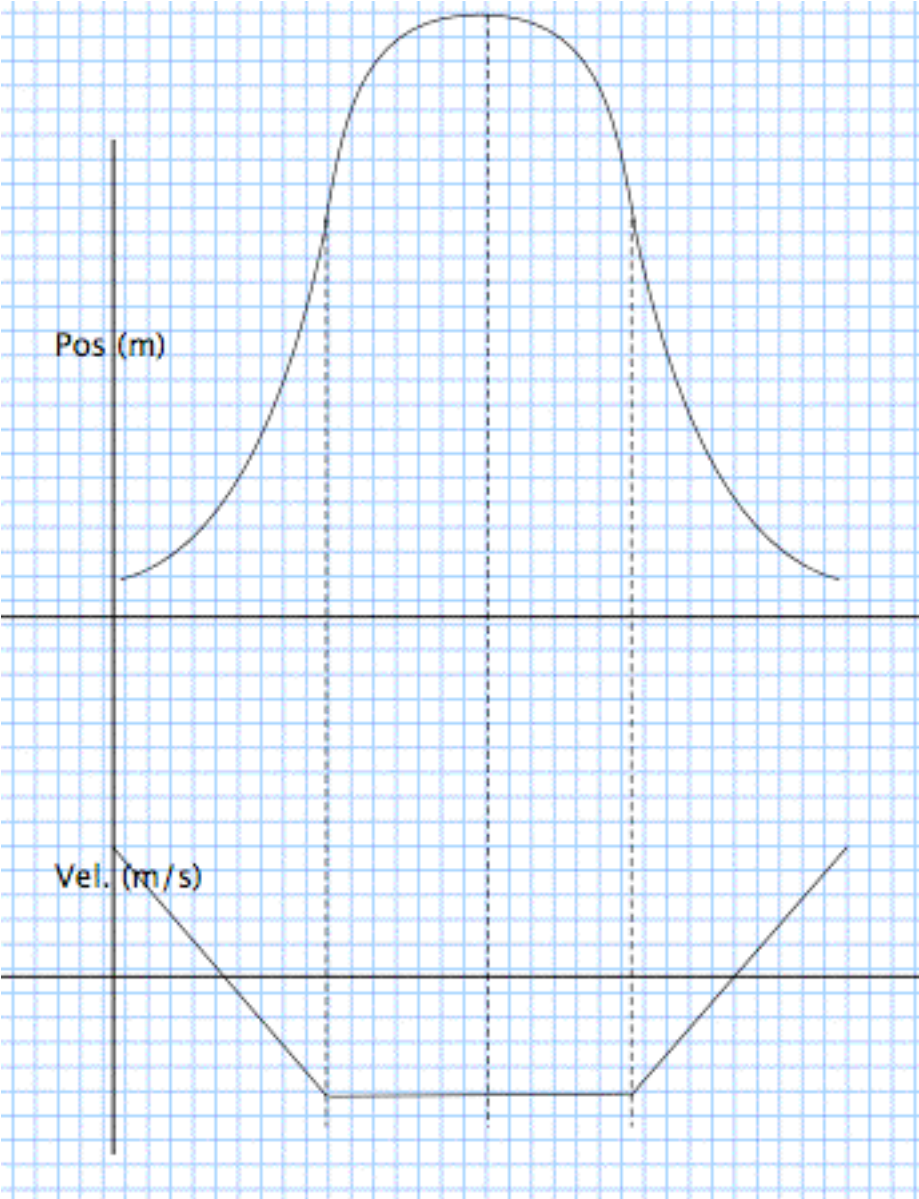
b)



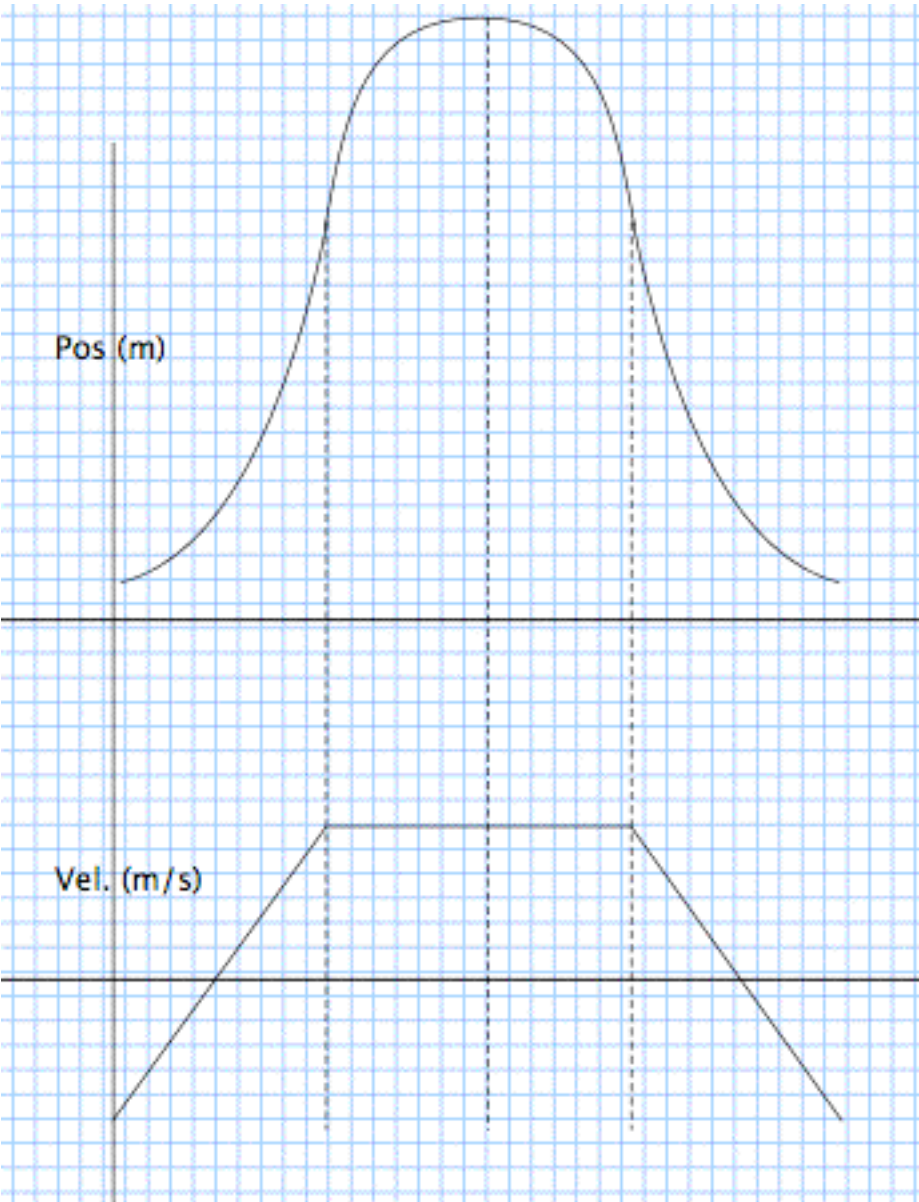
c)



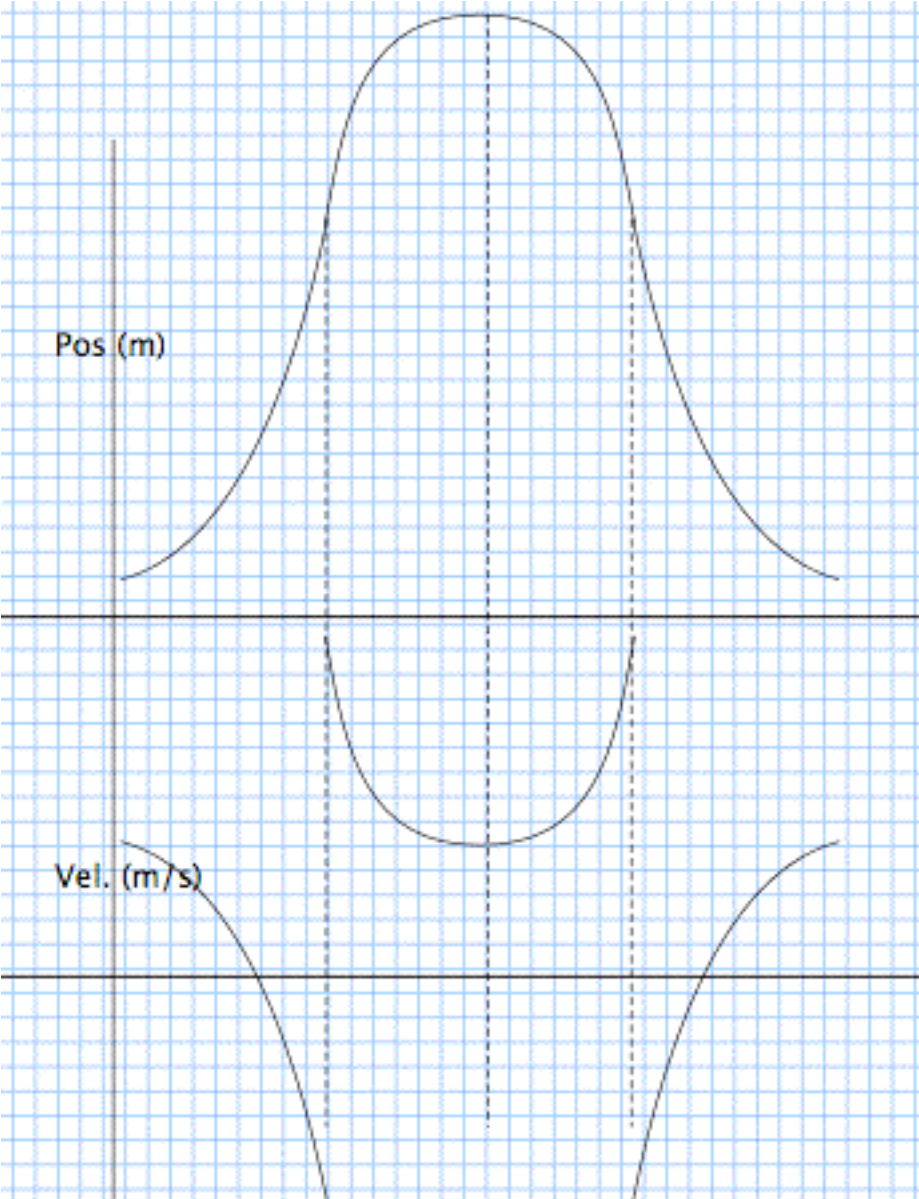
d)



e)



f)



g)

