Quantitative Kinematic graphs 3   Name _____
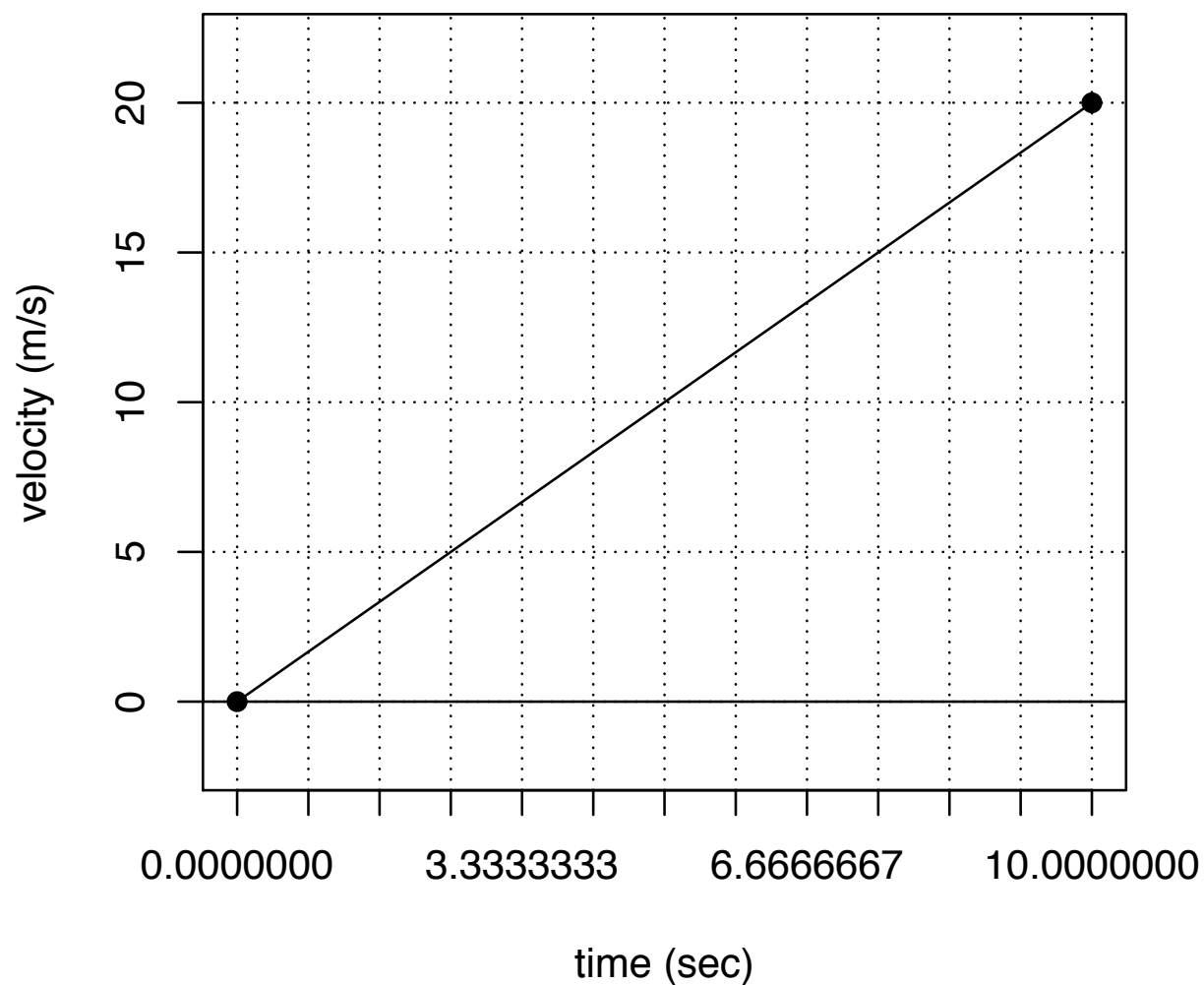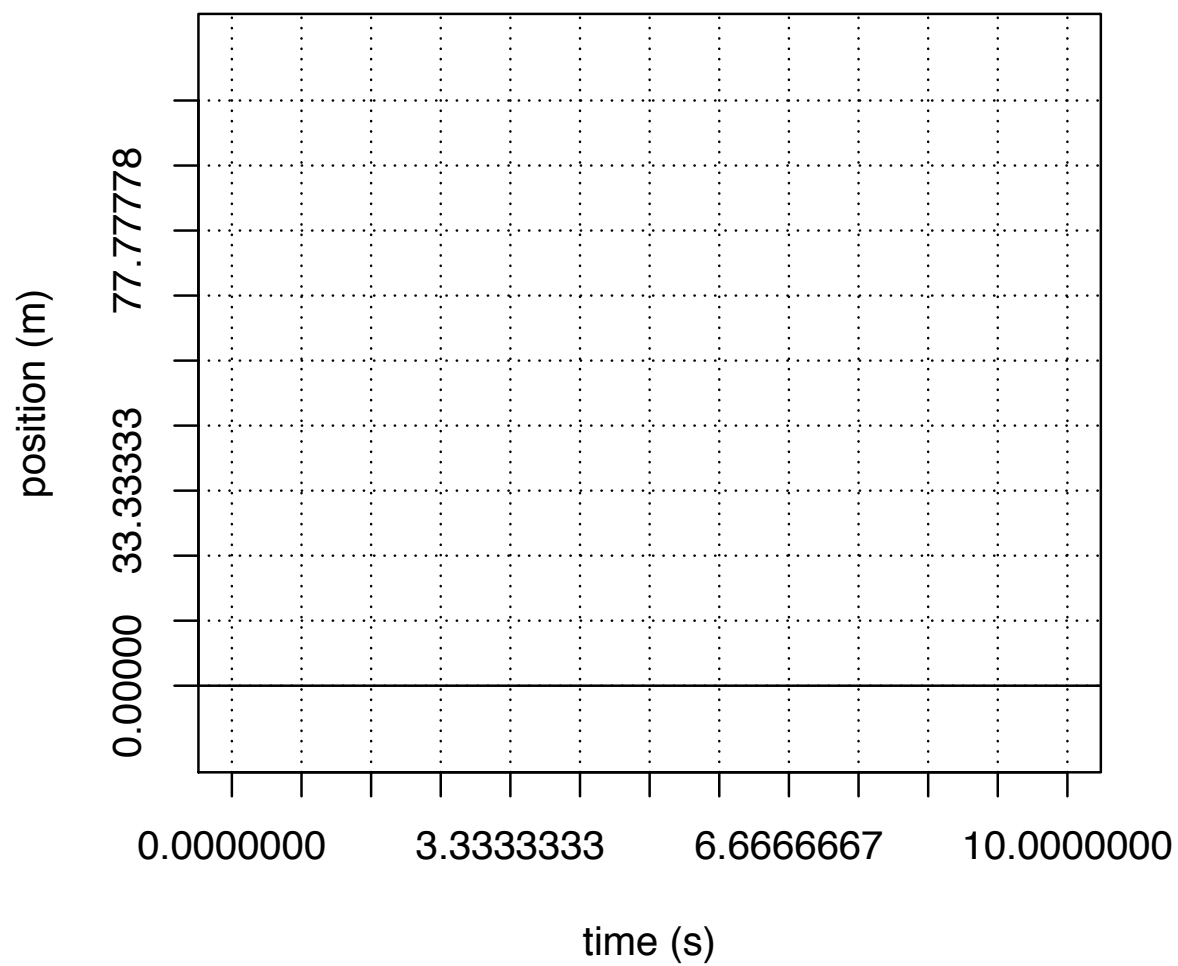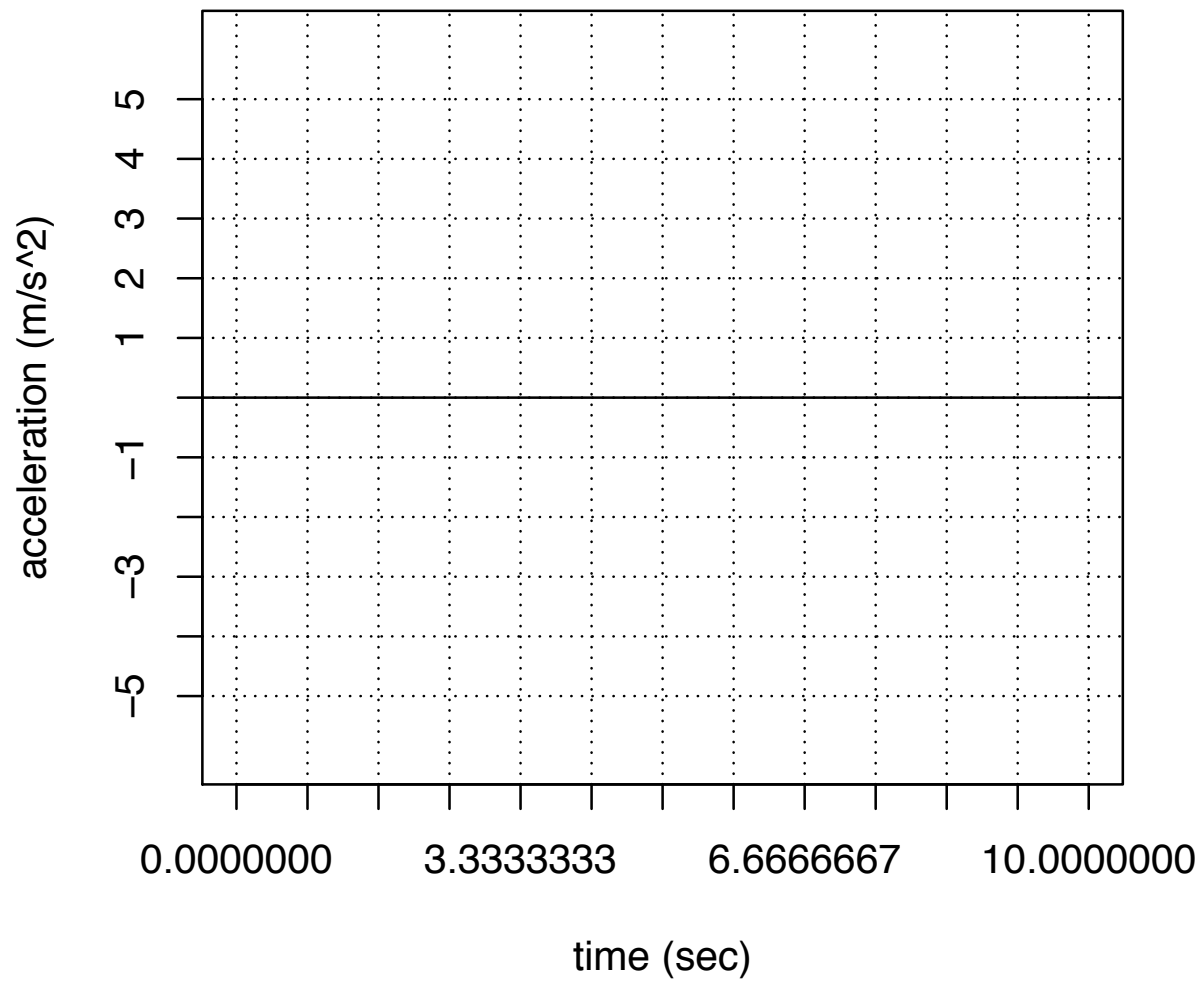
Area under a velocity-time graph = change in position.
Slope of a velocity-time graph = acceleration

Problem 1:initial Position = 0
Fill in the position and acceleration graphs on the next page

position (m)

77.77778

33.33333

0.00000

0.0000000   3.3333333   6.6666667   10.0000000

time (s)

acceleration (m/s^2)

5
4
3
2
1
−1
−3
−5

0.0000000   3.3333333   6.6666667   10.0000000
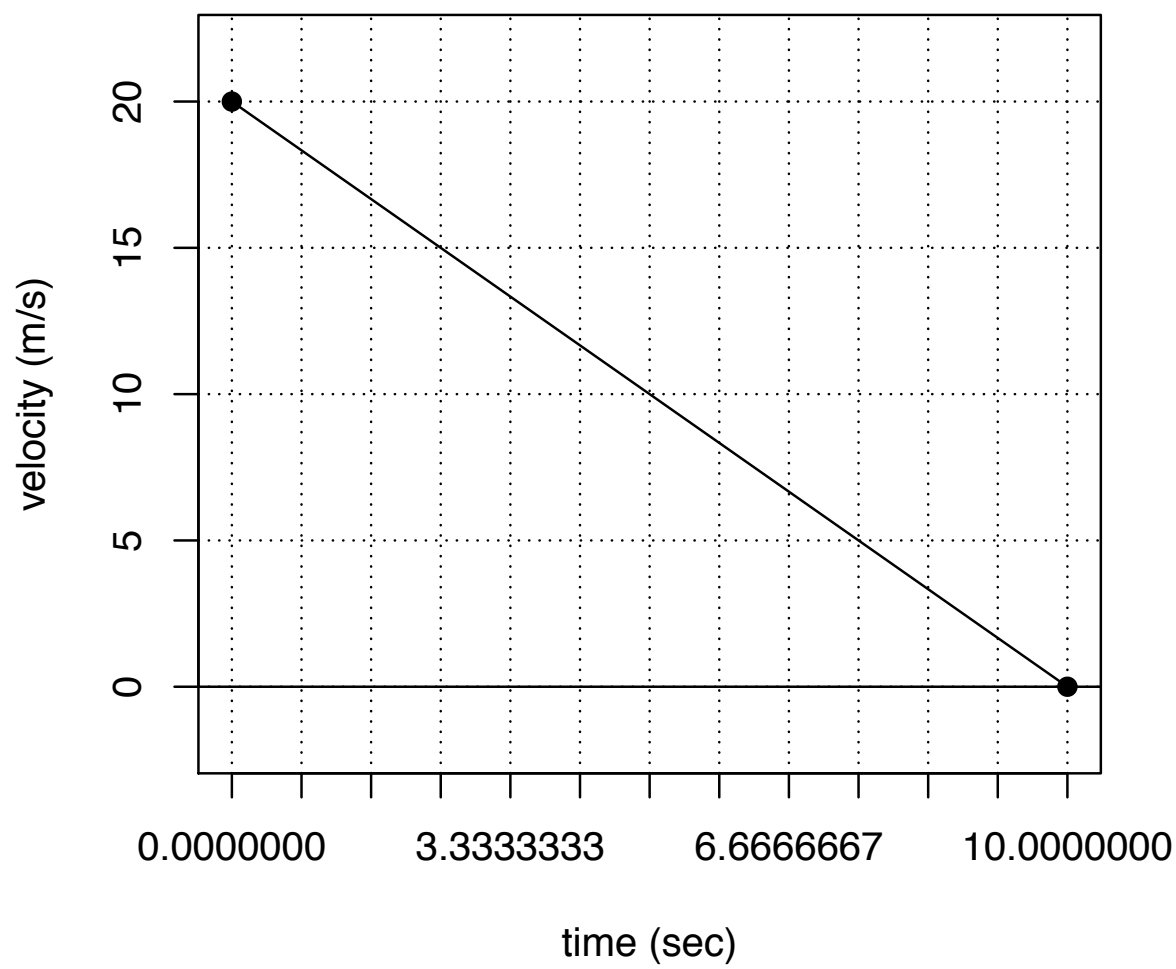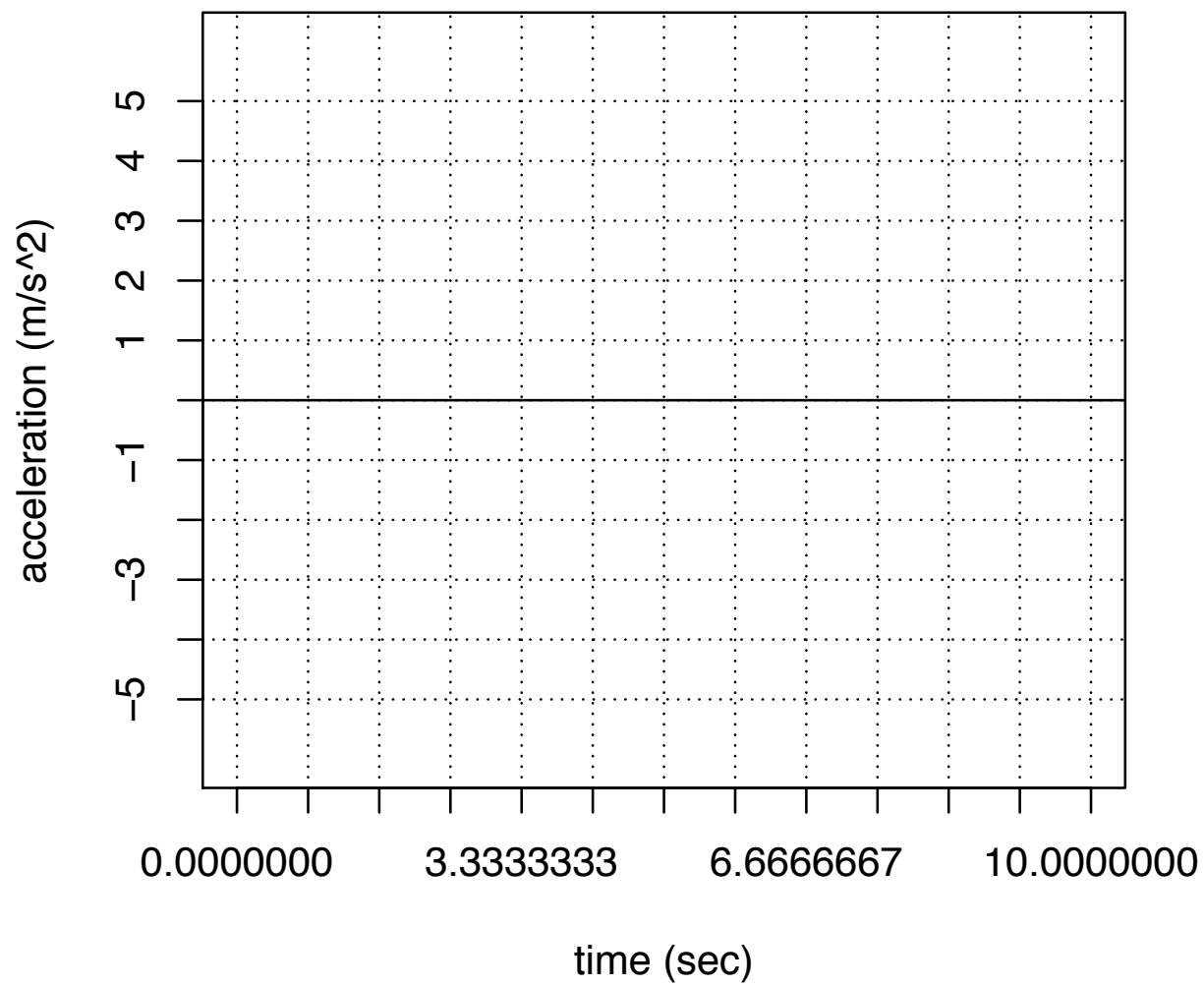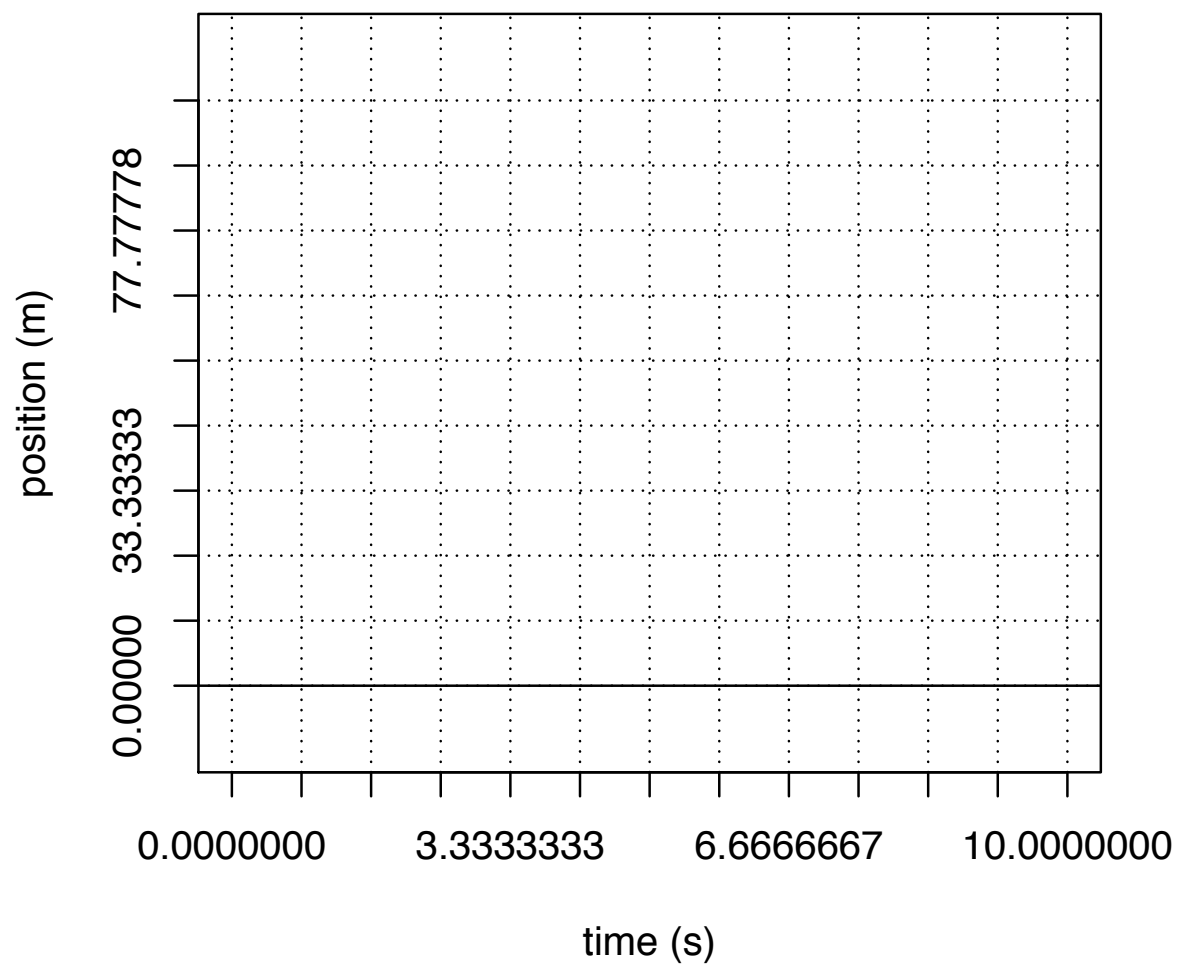
time (sec)

Quantitative Kinematic graphs 3   Name _____

Problem 2:
Initial Position = 0

acceleration (m/s^2)

time (sec)

position (m)

0.00000   33.33333   77.77778

0.0000000   3.3333333   6.6666667   10.0000000
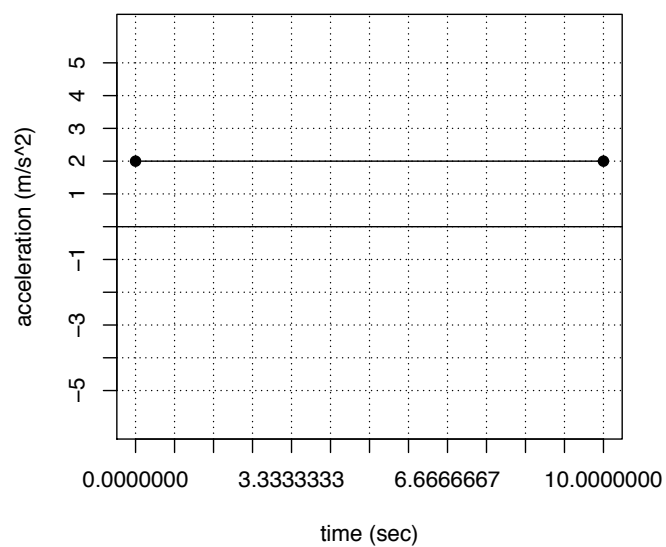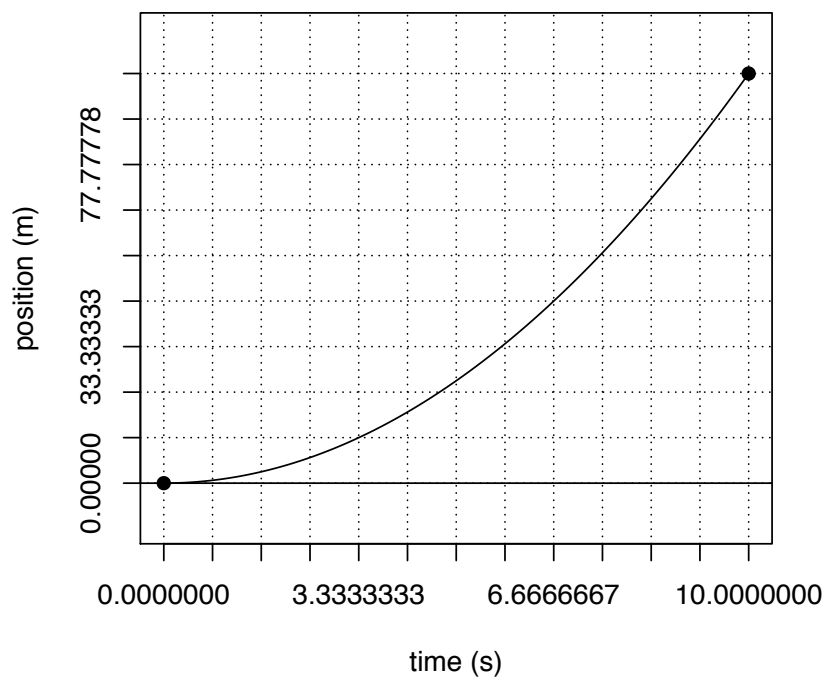
time (s)

Quantitative Kinematic graphs 3   Name _____

Answers
Problem 1:

Problem 2: