

UNIT III: Worksheet 1

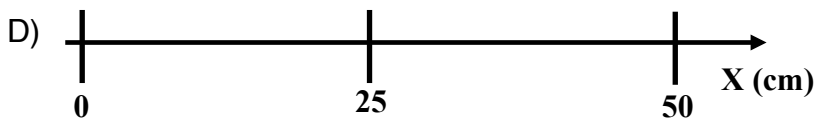
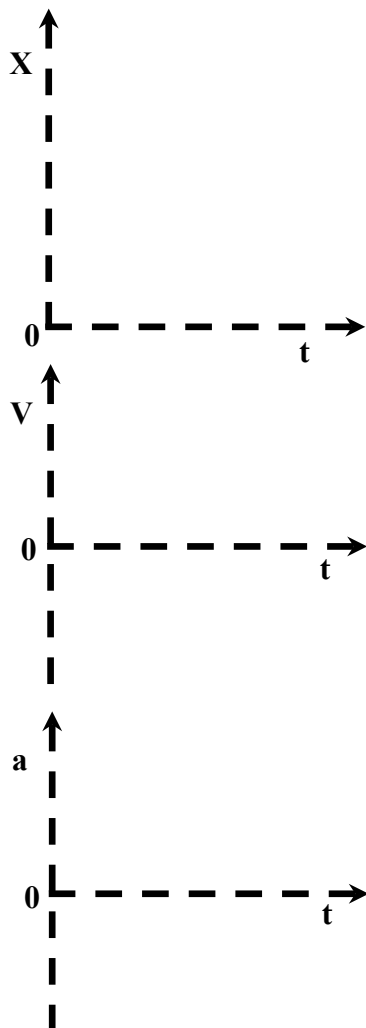
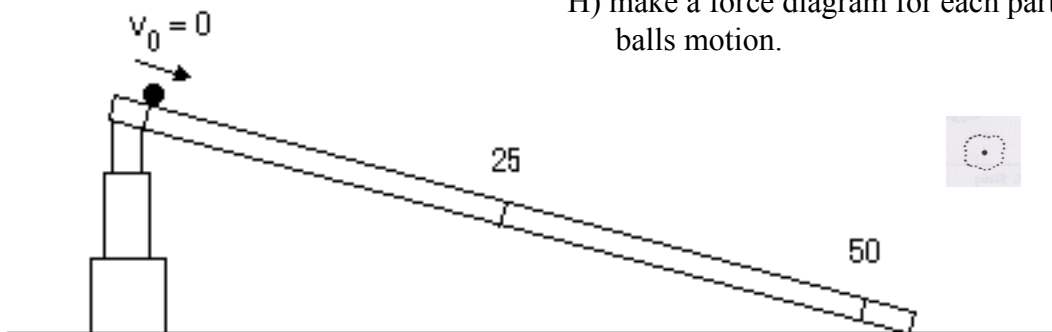
Name _____ #: _____

When evaluating problems 1 - 3, please represent the motion that would result from the rail configuration indicated by means of a:

- A) qualitative graphical representation of x vs. t
- B) qualitative graphical representation of v vs. t
- C) qualitative graphical representation of a vs. t
- D) qualitative motion map

- E) general mathematical expression of the relationship between x and t
- F) general mathematical expression of the relationship between v and t
- G) general mathematical expression of the relationship between a and t
- H) make a force diagram for each part of the balls motion.

1)

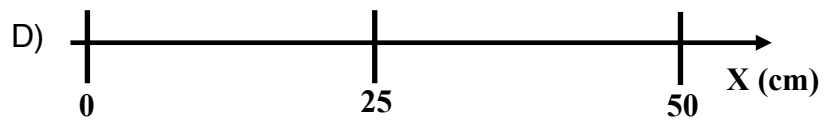
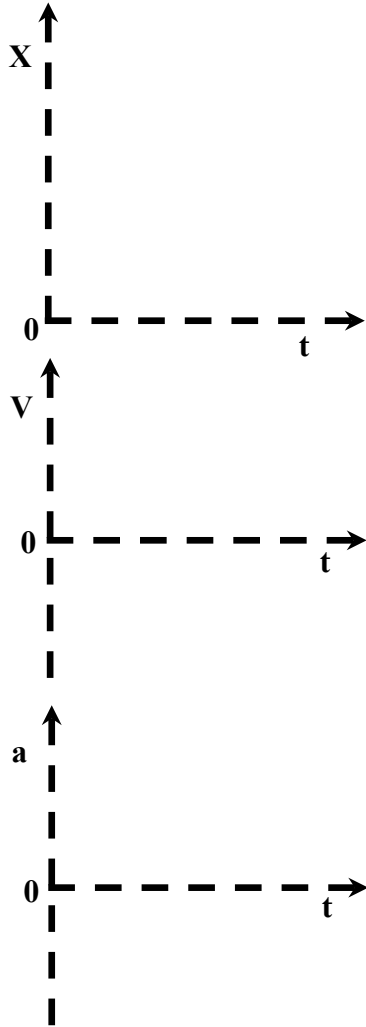
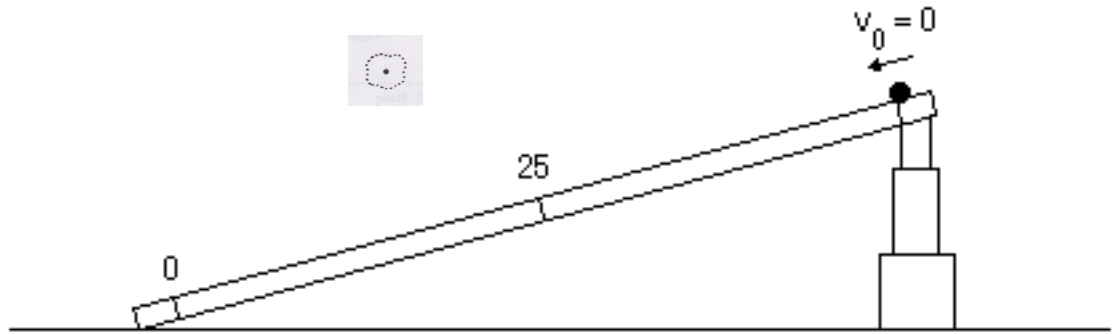


E) _____

F) _____

G) _____

2)

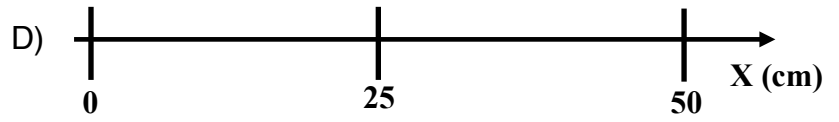
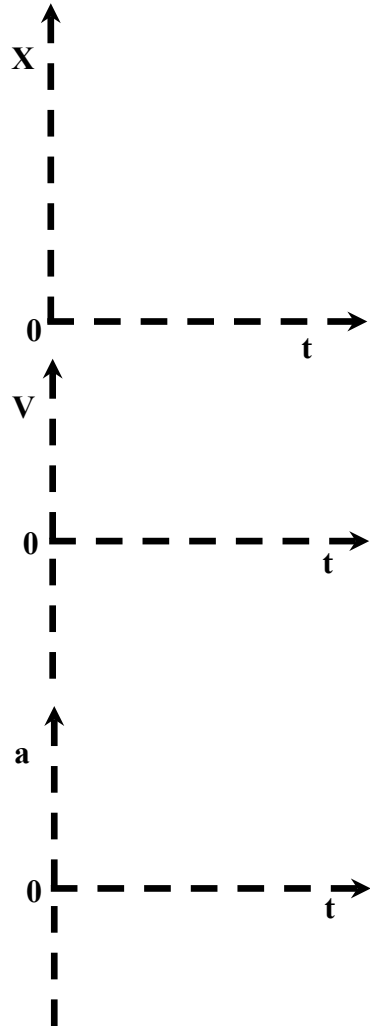
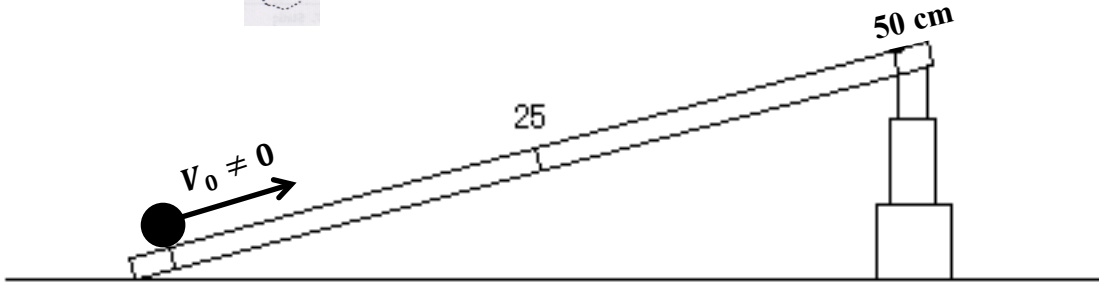


E) _____

F) _____

G) _____

3)



E) _____

F) _____

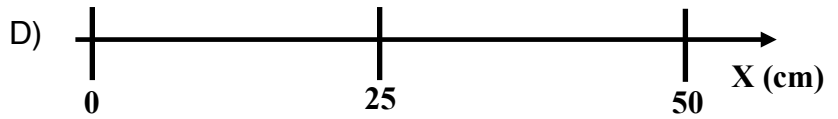
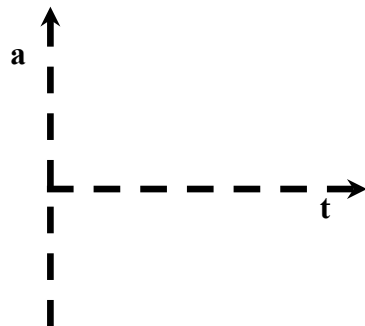
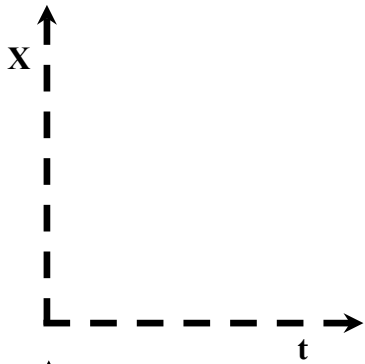
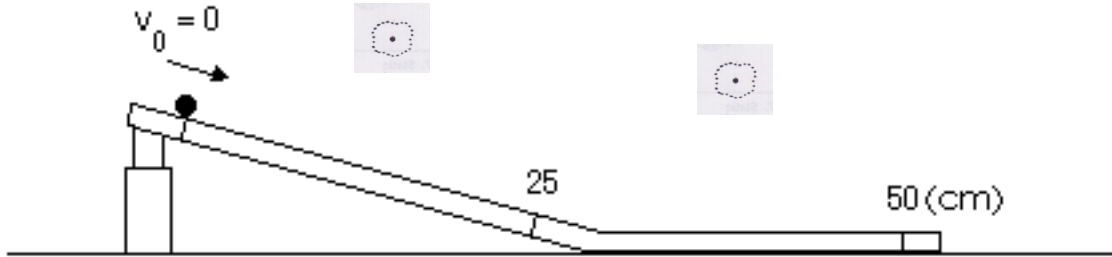
G) _____

When considering problems 4-5, assume that the ball does not experience any change in velocity while it is on a horizontal portion of the rail.

Please represent the motion that would result from the rail configuration indicated by means of a:

- A) qualitative graphical representation of x vs. t
- B) qualitative graphical representation of v vs. t
- C) qualitative graphical representation of a vs. t
- D) qualitative motion map
- E) make a force diagram for each part of the ball's motion.

4)



5)

