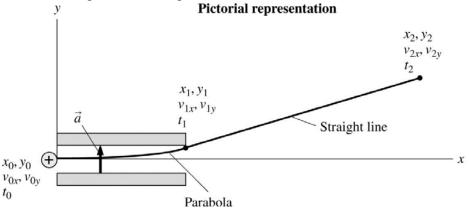
- 1. Solve problem 4.68
- 2. Solve problem 4.77 using the following variables shown.

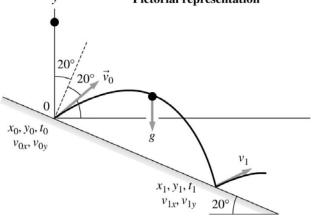


A few steps:

- Find the time taken for the ions to cross the plates and the time taken for them to cross the remaining part of the trip.
- Find the velocity and position when the particles exit from the plate in terms of variables. (This phase will have acceleration)
- Using these as the intial quantities for the next phase (outside the plate with no acceleration) find the expressions for position in the y direction. Use the given information.
  y
  Pictorial representation
- 3. Solve Problem 4.81.

A few steps:

• Use the information shown to find the initial launch angle and solve the problem.



- 4. Problem 6.28. Make sure you draw the freebody diagram of the beam, and show the axes you choose to analyze the problem.
- 5. Solve problem 6.11. Make sure you draw free body diagram of the box and shown the axes you use to analyze the motion.