



b. Reset the simulation (refresh or reload the page) and set to attraction, and place the ball at  $x=0$  and  $y=-10\text{cm}$ . Then press play.

i. What is the x component of net force for all times throughout this simulation?

ii. Is the y component of net force constant throughout?

iii. Is the y component of net force constant for any range of positions? If so can you determine what the net force is in this region? Do so!

iv. Is the net force zero at any positions for this simulation? If so where? Does the ball move even while the net force is zero? Discuss.

c. Try to set up situations similar to a and b but for the repulsive force.