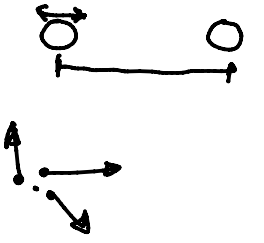
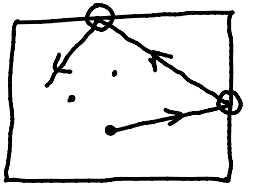
KINETIC THEORY OF GASES

BASIC POSTULATE OF KINETIC THEORY OF GASES



(a) The molecules of a gas are identical, spherical, rigid, and perfectly elastic point masses. The size is negligible in comparison to inter-molecular distance.

(b) Molecules of gas keep on moving randomly in all possible directions with all possible velocities. The speed of gas molecules is between zero and infinity (very high speed).



(c) The gas molecules keep on colliding among themselves as well as with the walls of containing vessel. These collisions are perfectly elastic.

(d) Molecules move in a straight line with constant speeds between two successive collisions.