4/14/20 -10°C Metal box 1.00 f,xed who lump 1.00L, latm 29°C When temperature decreases, the average energy of the molecules decreases, so the molecules collide with inside of the container with less energy. Since the volume will not change, the pressure must change.  $\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2} =$  $\frac{P_1}{T_1} \geq \frac{r_2}{T_2}$ OT proportional

Partial Pressure

I atm CO2 2 atm N2 3 atm Ne do not interact with each other Cexcept to collide), the total pressure in the container is equal to the sum of the individual pressures.

PT = Pco2 + PN2 + PNe \_\_\_\_ Partial pressures If the gases are not ideal, the total pressure is not necessarily the sum of the partial pressures.