Physics 231 -   1-Nov-99

- Announcements
- Ideal Gas Law
  - Boyle's Law
  - Charles Law
  - Law of Gay-Lussac
- Examples
- Quiz

Boyle's Law

Charles Law

Law of Gay-Lussac

Q1 - Answer = c
Q2 - Problem A - Last name A-K

A Sample of N_2 gas occupies 2.2 liters at 50°C and 1 atmosphere pressure. How many moles of N_2 are in the sample?

A. 0.08

B. 8.3

C. 13.2

D. 22.4

E. 34.6

Q1 - Answer = c
Q2 - Problem B - Last Name L-Z

- A 4 liter container of O_2 is under a pressure of 2.0 atmospheres at 0°C. How many moles of O_2 are in the container?

A. 2.7×10^{-2}

B. 0.112

C. 0.36

D. 3.64

E. 22.4