Appendix D ANSWERS TO SOME PROBLEMS

1-1. (a) At standard temperature and pressure, a mole of an ideal gas contains 6.022×10^{28} molecules (Avogadro's number) and occupies 22.4 liters. Hence, the number per m³ is $6.022 \times 10^{28}/2.24 \times 10^{-8} = 2.66 \times 10^{28} \, \mathrm{m}^{-8}$.

(b) Since PV = NRT, n = N/V = P/RT. Hence $n_1/n_0 = P_1T_0/P_0T_1$. Taking n_0 to be the density in part (a) and n_1 to be that in part (b), we have

$$n_1 = (2.69 \times 10^{20}) \frac{10^{-9}}{760} \frac{273}{(273 + 20)} = 3.30 \times 10^{19} \,\mathrm{m}^{-8}$$

Note that a diatomic gas such as H_0 will have twice as many atoms per torr as, say, He.

1-2. Consider the integral

$$I^{2} = \int_{-\infty}^{\infty} e^{-x^{2}} dx \int_{-\infty}^{\infty} e^{-y^{2}} dy = \int_{-\infty}^{\infty} e^{-(x^{2} + y^{2})} dx dy$$

in a two-dimensional space. Transforming to cylindrical coordinates, we have

$$I^{\alpha} = \int \int e^{-r^{\alpha}} r \, dr \, d\phi = 2\pi \int_{0}^{\infty} e^{-r^{\alpha}} r \, dr$$

= $= \int e^{-r^{\alpha}} d(r^{\alpha}) = -\pi e^{-r^{\alpha}} |_{0}^{\infty} = \pi$

Hence,

1

$$I = \int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

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