- 19.1 A trick question. The mean kinetic energy is the same for each case, $\frac{3}{8}k_{\rm B}T=38\,{\rm meV}$.
- 19.2 C_p = C_V + R and C_p = ⁵/₂R = 20.785 (for a gas with only translational modes excited or a monatomic gas; i.e. Ar, He, Ne, Xe), C_p = ²/₂R = 29.099 (for a gas with translational and rotational modes excited; H₂, N₂, O₂), and C_p = 3R = 24.94 (for solids, such as Al, Au, Cu, Fe, Pb, Ag and Zn).
- 19.3 Taking the well as a one-dimensional problem, dV/dr = 0 gives a minimum at r₀ⁿ⁻¹ = nA/B and one can Taylor expand around the bottom of this well to show that V = V₀ + α(r r₀)² where α is a constant. The particle can execute simple harmonic motion around the bottom of this well, giving two degrees of freedom (one kinetic, one potential), and so the mean thermal energy is 2 × ½k_BT = k_BT.
- 19.4

$$\langle x_i^2 \rangle = \frac{\int_{-\infty}^\infty x_i^2 \mathrm{e}^{-\beta \alpha_i x_i^2} \, \mathrm{d} x_i}{\int_{-\infty}^\infty \mathrm{e}^{-\beta \alpha_i x_i^2} \, \mathrm{d} x_i = \frac{1}{2\alpha_i \beta}} = \frac{k_\mathrm{B} T}{2\alpha_i}.$$

19.5 Writing $E = \alpha |x|$, we have $dE = \alpha dx$ and $dx = \alpha^{-1} dE$. Hence

$$\langle E \rangle = \frac{\int_0^{\infty} E e^{-\beta E} dx}{\int_0^{\infty} e^{-\beta E} dx} = \frac{\int_0^{\infty} E e^{-\beta E} dE}{\int_0^{\infty} e^{-\beta E} dE} = k_B T.$$

19.6 Writing $E = \alpha |x|^{\alpha}$, we have $dE = m\alpha |x|^{\alpha-1} dx = \frac{nE}{|x|} dx$ and $dx = \kappa E^{\frac{1}{\alpha}-1} dE$ where κ is a constant. Hence

$$\langle E \rangle = \frac{\int_0^\infty E \mathrm{e}^{-\beta E} \, \mathrm{d}x}{\int_0^\infty e^{-\beta E} \, \mathrm{d}x} = \frac{\int_0^\infty E^{\frac{1}{n}} \mathrm{e}^{-\beta E} \, \mathrm{d}E}{\int_0^\infty E^{\frac{1}{n}-1} \mathrm{e}^{-\beta E} \, \mathrm{d}E} = k_\mathrm{B} T \frac{\Gamma(1+\frac{1}{n})}{\Gamma(\frac{1}{n})} = \frac{k_\mathrm{B} T}{n}.$$

Note, if n = 1 then the answer is

$$k_{0}, T_{s}$$

in agreement with the previous question. If n = 2 then the answer is

$$\frac{k_{\rm B}T}{2}$$
,

in agreement with the equipartition theorem.

19.7 $\tilde{\theta} + (q/\ell) \sin \theta = 0$ and so if $\theta \ll 1$, then we have

$$\ddot{\theta} + \omega^2 \theta = 0.$$

where $\omega^2 = g/\ell$ so that the period is $T = 2\pi/\omega = 2\pi\sqrt{\ell/g}$. If the angle θ deviates from zero, the potential energy increases by

$$\ell(1 - \cos \theta) \approx \ell \theta^2/2$$
,

when $\theta \ll 1$. Hence the mean P.E. (using equipartition) is

$$\langle mg\ell\theta^2/2\rangle = \frac{1}{2}k_{\rm B}T$$

and hence

$$\langle \theta^2 \rangle = \frac{k_{\mathrm{B}} T}{m g \ell}.$$

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Xiang Xie

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