

# The Boltzmann Factor and Partition Functions

## PROBLEMS AND SOLUTIONS

**3-1.** How would you describe an ensemble whose systems are one-liter containers of water at 25°C?

\_\_\_\_\_

An unlimited number of one-liter containers of water in an essentially infinite heat bath at 298 K.

**3-2.** Show that Equation 3.8 is equivalent to  $f(x+y) = f(x)f(y)$ . In this problem, we will prove that  $f(x) \propto e^{\alpha x}$ . First, take the logarithm of the above equation to obtain

$$\ln f(x+y) = \ln f(x) + \ln f(y)$$

Differentiate both sides with respect to  $x$  (keeping  $y$  fixed) to get

$$\begin{aligned} \left[ \frac{\partial \ln f(x+y)}{\partial x} \right]_y &= \frac{d \ln f(x+y)}{d(x+y)} \left[ \frac{\partial(x+y)}{\partial x} \right]_y = \frac{d \ln f(x+y)}{d(x+y)} \\ &= \frac{d \ln f(x)}{dx} \end{aligned}$$

Now differentiate with respect to  $y$  (keeping  $x$  fixed) and show that

$$\frac{d \ln f(x)}{dx} = \frac{d \ln f(y)}{dy}$$

For this relation to be true for all  $x$  and  $y$ , each side must equal a constant, say  $\alpha$ . Show that

$$f(x) \propto e^{\alpha x} \quad \text{and} \quad f(y) \propto e^{\alpha y}$$

\_\_\_\_\_

Let  $x = E_1 - E_2$  and  $y = E_2 - E_3$ . Then  $x+y = E_1 - E_3$ , and we can write Equation 3.8 as  $f(x+y) = f(x)f(y)$ . Taking the logarithm of this equation gives

$$\begin{aligned} \ln f(x+y) &= \ln [f(x)f(y)] \\ &= \ln f(x) + \ln f(y) \end{aligned}$$

We then differentiate with respect to  $x$  and find

$$\begin{aligned} \left[ \frac{\partial \ln f(x+y)}{\partial x} \right]_y &= \left[ \frac{\partial \ln f(x)}{\partial x} \right]_y + 0 \\ \frac{d \ln f(x+y)}{d(x+y)} \left[ \frac{\partial(x+y)}{\partial x} \right]_y &= \frac{d \ln f(x)}{dx} \\ \frac{d \ln f(x+y)}{d(x+y)} &= \frac{d \ln f(x)}{dx} \end{aligned} \tag{1}$$

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web mar 13 2023 project oceanology seeks an innovative experienced and dedicated educator to deliver inspiring marine science and environmental education programs to summer campers applicants should have knowledge of marine science and broad interest in oceans including coastal ecosystems fisheries resources human interactions and

**project oceanology linkedin** - Mar 16 2023

web project oceanology is a marine science education non profit whose goal is fostering interest and enthusiasm for the marine environment through hands on on the water experiential learning we

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web marine animals and their environment grades 4 6 explore the residents of the local ecosystems thru the exhibits at mystic aquarium and the waters off project oceanology environmental conservation camp grades 7 10 learn how you can have an impact on our local environment while at project oceanology and mystic aquarium

*1084 shennecossett rd groton ct 06420 oceanology* - Jan 14 2023

web project oceanology s mission since 1972 has been to nurture enthusiasm for science and for our planet s marine environment from our waterfront facilities on long island sound in groton as a year round marine science and environmental education organization operated by a 501 c 3 nonprofit association

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*about us project oceanology* - Sep 22 2023

web project oceanology is a year round marine science educational organization governed by local school districts and in collaboration with universities and other educational institutions project oceanology s vision is to be the center of excellence for inquiry and place based science and marine education serving the evolving needs of our global

**project oceanology all you need to know before you go tripadvisor** - Oct 11 2022

web reservations are required and you have to provide a credit card to book the reservation you are not charged until the day of you can cancel with 48 hours notice project oceanology is actually inside the uconn groton campus the gps address works fine to get you to the campus and then just look for the signs pointing to project oceanology