Review Question (1.1 - 1.4)

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Problem 1

Consider two bosons, spin 1 with m = -1,0,1 They occupy two single-particle levels with energies 0 and ϵ

- $(a) \quad Calculate \ the \ partition \ function$
- (b) Calculate $\langle E \rangle$ at $T = T, 0, \infty$
- (c) Calculate $\langle S \rangle$ at $T = T, 0, \infty$