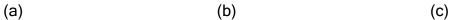
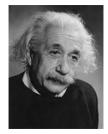
Quiz #1

Sept. 7, 2015
Quantum Mechanics
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<u>Prob. 1</u>

Each of following famous scientists made great contributions to the development of quantum mechanics. Identify each person and give a one-sentence explanation for the major contribution of each person.









Prob. 2

According to Plank, the intensity spectrum of the blackbody radiation is given as $\frac{8\pi\nu^2}{c^3}\frac{h\nu}{e^{\frac{h\nu}{kT}}-1}\ .$

Show that when the frequency is very small the above expression approaches the classical expression in which the intensity is proportional to v^2 .

Prob. 3

De Broglie postulated that every matter has the wave property. How can one determine the matter wavelength?