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R. COURANT As Henri Poincaré Once Remarked, "solution Of A Mathematical Problem" Is A Phrase Of Indefinite Meaning. Pure Mathematicians Sometimes Are Satisfied With Showing That The Non-existence Of A Solution Implies A Logical Contradiction, While Engineers Might Consider A Numerical Result As The Only Reasonable Goal. Such One Sided Views 2th, 2024

**Variational Methods Applied To The Particle In A Box**

Consider A Particle That Is Confined To Motion Along A Segment Of The X-axis (a One Dimensional Box). For Simplicity, Imagine The Boundaries Of The Box To Lie At  $X=0$  And  $X=L$ . We Will Further Define The Potential Energy Of The Particle To Be Zero Inside The Box ( $V=0$  When  $0$