

THE SOLUTION OF PROBLEMS ...R. COURANT As Henri Poincaré Once Remarkd, "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 Feb 4th, 2024Variational Methods Applied To The Particle In A BoxConsider 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