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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 Apr 15th, 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 $0 < x < L$)