Title

Names

INTRODUCTION

Consider the IVP:

Inviscid burgers equation IVP

This is the IVP of the Inviscid Burgers Equation, which is the PDE that we will be studying. The equation is the inviscid limit (limit as ) of the Burgers Equation

Inviscid burgers =

The equation is used to model the formation and propagation of shocks in physical mediums. These are often fluids but the equation can also be applied to more abstract mediums like traffic.

-talking about shocks affecting smoothness and numerical methods negatively