

Abstract. The purpose of this paper is to study the asymptotic behavior of the solutions of the Cauchy problem for the Burgers equation with respect to the initial data. It is shown that the asymptotic behavior of the solutions depends on the properties of the initial data. In particular, it is shown that if the initial data are bounded and continuous, then the solutions converge to a constant value as time goes to infinity. If the initial data are unbounded, then the solutions may exhibit different asymptotic behaviors depending on the growth rate of the initial data.