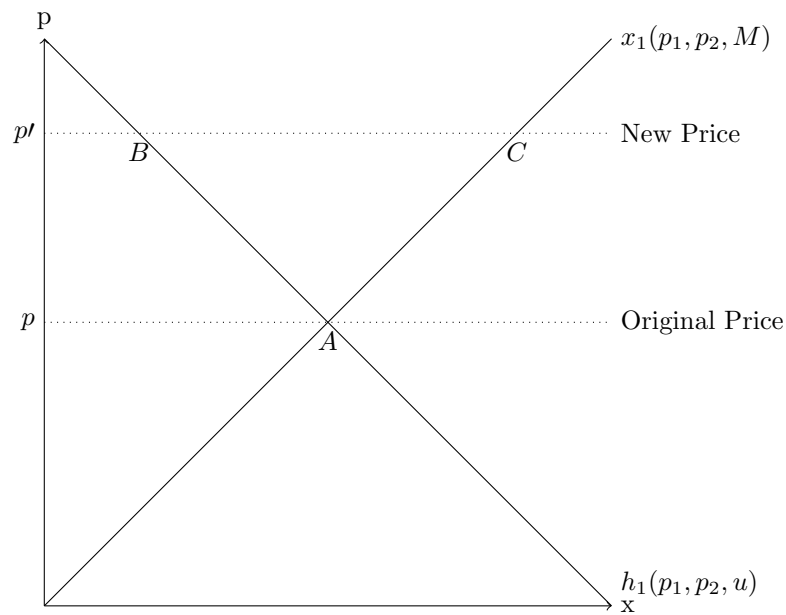


## Marshallian demand and hicksian demand

Consider the following graph of Marshallian and Hicksian Demand for a Giffen good. Determine if, for the price  $p'$ , an individual with the Marshallian Demand obtains greater utility than with the Hicksian Demand.



## Solution

The Hicksian demand maintains the same utility along the curve. Therefore, at points  $A$  and  $B$ , the utility is the same. On the other hand, the Marshallian demand aims to maximize utility given the prices and income. Facing a price increase, the individual demands more of good  $x_1$ , but because they have less purchasing power, the available baskets decrease and therefore the utility is necessarily less or equal than before. The Hicksian demand adjusts the income in such a way that the individual has the same utility as at point  $A$ . What is happening here is that the individual with Hicksian demand maintains the same utility and therefore is not negatively affected by the increase in  $p_1$ . At point  $B$ , then, the individual has greater utility than at point  $C$ .