

Example 1

A car rental agency charges a fixed amount per day plus an amount per mile for renting a car. The daily charges can be expressed as the function $f(x) = 0.20x + 25$, where x is the number of miles driven. Find the charges if the car is driven 158 miles.

Example 2

A retailer has some items that she wants to sell at a profit of 40% of the cost of each item. The selling price can be represented as a function of the cost by $f(c) = 1.4c$, where c is the cost of an item. Make a table showing the cost and the selling price of items that cost \$8, \$12, \$15, \$22, and \$30.

Example 3

The cost for burning a 60-watt lightbulb is given by the function $c(h) = 0.0036h$, where h represents the number of hours that the bulb is burning. How much does it cost to burn a 60-watt bulb for 30 days when the bulb is burning 3 hours per day?