## Exercise 109

The total cost C (in thousands of dollars) to produce a certain item is modeled by the function C(x) = 10.50x + 28,500, where x is the number of items produced. Determine the cost to produce 175 items.

## Solution

Plug in x = 175 to the cost function.

C(175) = 10.50(175) + 28500 = 30337.5

Since this is 30 337.5 thousands of dollars, the total cost to produce 175 items is \$30 337 500.