## Exercise 109

The total cost $C$ (in thousands of dollars) to produce a certain item is modeled by the function $C(x)=10.50 x+28,500$, 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 30337.5 thousands of dollars, the total cost to produce 175 items is $\$ 30337500$.

