## Exercise 28

For the following exercises, consider this scenario: The number of people afflicted with the common cold in the winter months steadily decreased by 205 each year from 2005 until 2010. In $2005,12,025$ people were afflicted.

If the function $C$ is graphed, find and interpret the slope of the function.

## Solution

Because the number of people that have a cold decreases steadily, a linear function can be used to model it. The slope is -205 , the rate at which the number of people that have a cold increases. The initial number of people that have a cold is 12,025 .

$$
C(t)=-205 t+12025
$$



