## Exercise 1

Terry is skiing down a steep hill. Terry's elevation, $E(t)$, in feet after $t$ seconds is given by $E(t)=3000-70 t$. Write a complete sentence describing Terry's starting elevation and how it is changing over time.

## Solution

Plug in $t=0$ to see what Terry's height is initially.

$$
E(0)=3000-70(0)=3000
$$

The coefficient of $t$ represents the rate at which Terry's height is changing. Therefore, Terry starts at 3000 feet and descends 70 feet every second.

