Exercise 2

Maria is climbing a mountain. Maria's elevation, $E(t)$, in feet after t minutes is given by $E(t) = 1200 + 40t$. Write a complete sentence describing Maria's starting elevation and how it is changing over time.

Solution

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

$$E(0) = 1200 + 40(0) = 1200$$

The coefficient of t represents the rate at which Maria's height is changing. Therefore, Maria starts at 1200 feet and ascends 40 feet every minute.