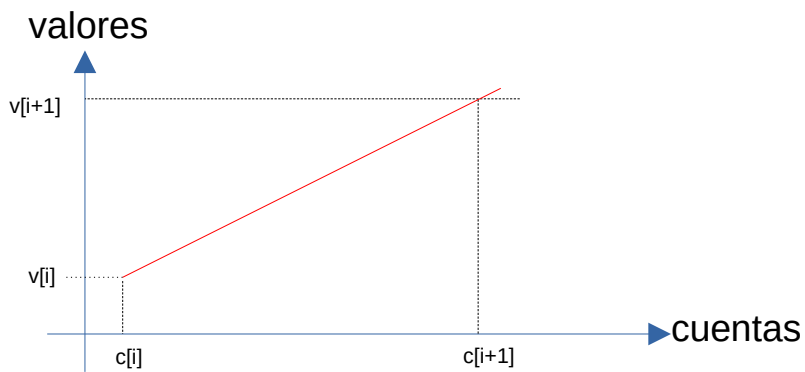


## Pendiente Positiva



$$y = ax + b$$

$$c[i] \rightarrow v[i]$$

$$c[i+1] \rightarrow v[i+1]$$

$$(1) \quad v[i] = ac[i] + b$$

$$(2) \quad v[i+1] = ac[i+1] + b$$

$$(1) - (2)$$

$$v[i] - v[i+1] = ac[i] - ac[i+1]$$

$$v[i] - v[i+1] = a(c[i] - c[i+1])$$

$$(3) \quad a = \frac{v[i] - v[i+1]}{c[i] - c[i+1]}$$

$$(3) \text{ en } (1)$$

$$v[i] = \frac{v[i] - v[i+1]}{c[i] - c[i+1]} c[i] + b$$

$$b = v[i] - \frac{v[i] - v[i+1]}{c[i] - c[i+1]} c[i]$$

$$b = v[i] - \frac{c[i]v[i] - c[i]v[i+1]}{c[i] - c[i+1]}$$

$$b = \frac{c[i]v[i] - c[i+1]v[i] - c[i]v[i] + c[i]v[i+1]}{c[i] - c[i+1]}$$

$$b = \frac{\cancel{c[i]v[i]} - c[i+1]v[i] - \cancel{c[i]v[i]} + c[i]v[i+1]}{c[i] - c[i+1]}$$

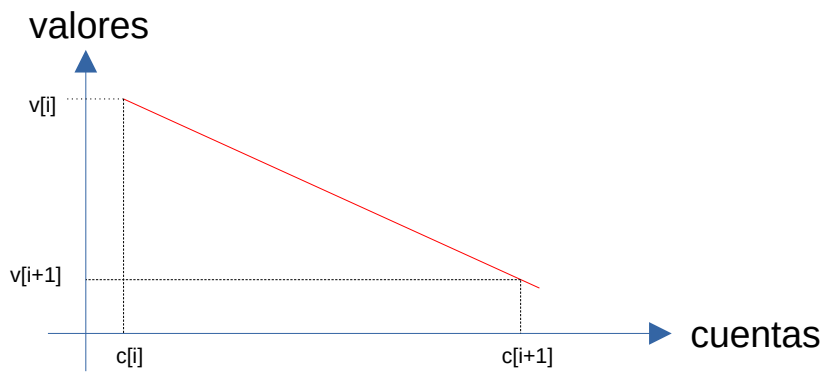
$$b = \frac{c[i]v[i+1] - c[i+1]v[i]}{c[i] - c[i+1]}$$

→

$$y = ax + b \rightarrow$$

$$y = \frac{v[i] - v[i+1]}{c[i] - c[i+1]} x + \frac{c[i]v[i+1] - c[i+1]v[i]}{c[i] - c[i+1]}$$

## Pendiente Negativa



$$y = -ax + b$$

$$c[i] \rightarrow v[i]$$

$$c[i+1] \rightarrow v[i+1]$$

$$(1) \quad v[i] = -ac[i] + b$$

$$(2) \quad v[i+1] = -ac[i+1] + b$$

$$(1) - (2)$$

$$v[i] - v[i+1] = -ac[i] + ac[i+1]$$

$$v[i] - v[i+1] = a(c[i+1] - c[i])$$

$$(3) \quad a = \frac{v[i] - v[i+1]}{c[i+1] - c[i]}$$

(3) en (1)

$$v[i] = -\frac{v[i] - v[i+1]}{c[i+1] - c[i]} c[i] + b$$

$$b = v[i] - \frac{v[i+1] - v[i]}{c[i+1] - c[i]} c[i]$$

$$b = v[i] - \frac{c[i]v[i+1] - c[i]v[i]}{c[i+1] - c[i]}$$

$$b = \frac{c[i+1]v[i] - c[i]v[i] + c[i]v[i] - c[i]v[i+1]}{c[i+1] - c[i]}$$

$$b = \frac{c[i+1]v[i] - c[i]v[i+1]}{c[i+1] - c[i]}$$

$$b = \frac{c[i+1]v[i] - c[i]v[i+1]}{c[i+1] - c[i]}$$

→

$$y = ax + b \rightarrow$$

$$y = \frac{v[i] - v[i+1]}{c[i+1] - c[i]} x + \frac{c[i+1]v[i] - c[i]v[i+1]}{c[i+1] - c[i]}$$

→ *Pendiente Positiva*

$$y = \frac{v[i]-v[i+1]}{c[i]-c[i+1]}x + \frac{c[i]v[i+1]-c[i+1]v[i]}{c[i]-c[i+1]}$$

→ *Pendiente Negativa*

$$y = \frac{v[i+1]-v[i]}{c[i]-c[i+1]}x + \frac{c[i]v[i+1]-c[i+1]v[i]}{c[i]-c[i+1]}$$

Para el código:

→ *Pendiente Positiva*

$$y = \frac{v[i-1]-v[i]}{c[i-1]-c[i]}x + \frac{c[i-1]v[i]-c[i]v[i-1]}{c[i-1]-c[i]}$$

→ *Pendiente Negativa*

$$y = \frac{v[i]-v[i-1]}{c[i-1]-c[i]}x + \frac{c[i-1]v[i]-c[i]v[i-1]}{c[i-1]-c[i]}$$