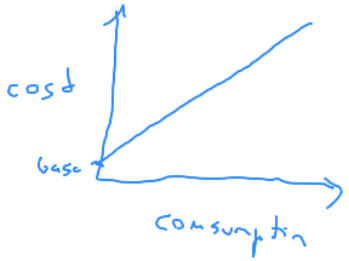
cost [Euros] = consumption [kWh] × price [Euros/kWh] + base [Euros]

dependent
$y = m \cdot x + b$
independent



$f(x) = \textcircled{m}\, x + \textcircled{b}$

$f(x; m, b) = f(\vec{x}; \vec{p})$

$\vec{x} = (x)$

$\vec{p} = \begin{pmatrix} m \\ b \end{pmatrix}$

$f(X, \theta) = \theta^T X$

$\theta^T = [b, m]$

$X = \begin{bmatrix} 1 \\ x \end{bmatrix}$

$\theta^T \cdot X = [b, m] \begin{bmatrix} 1 \\ x \end{bmatrix} = 1 \cdot b + m \cdot x$

$\theta = \begin{bmatrix} b \\ m \end{bmatrix}$