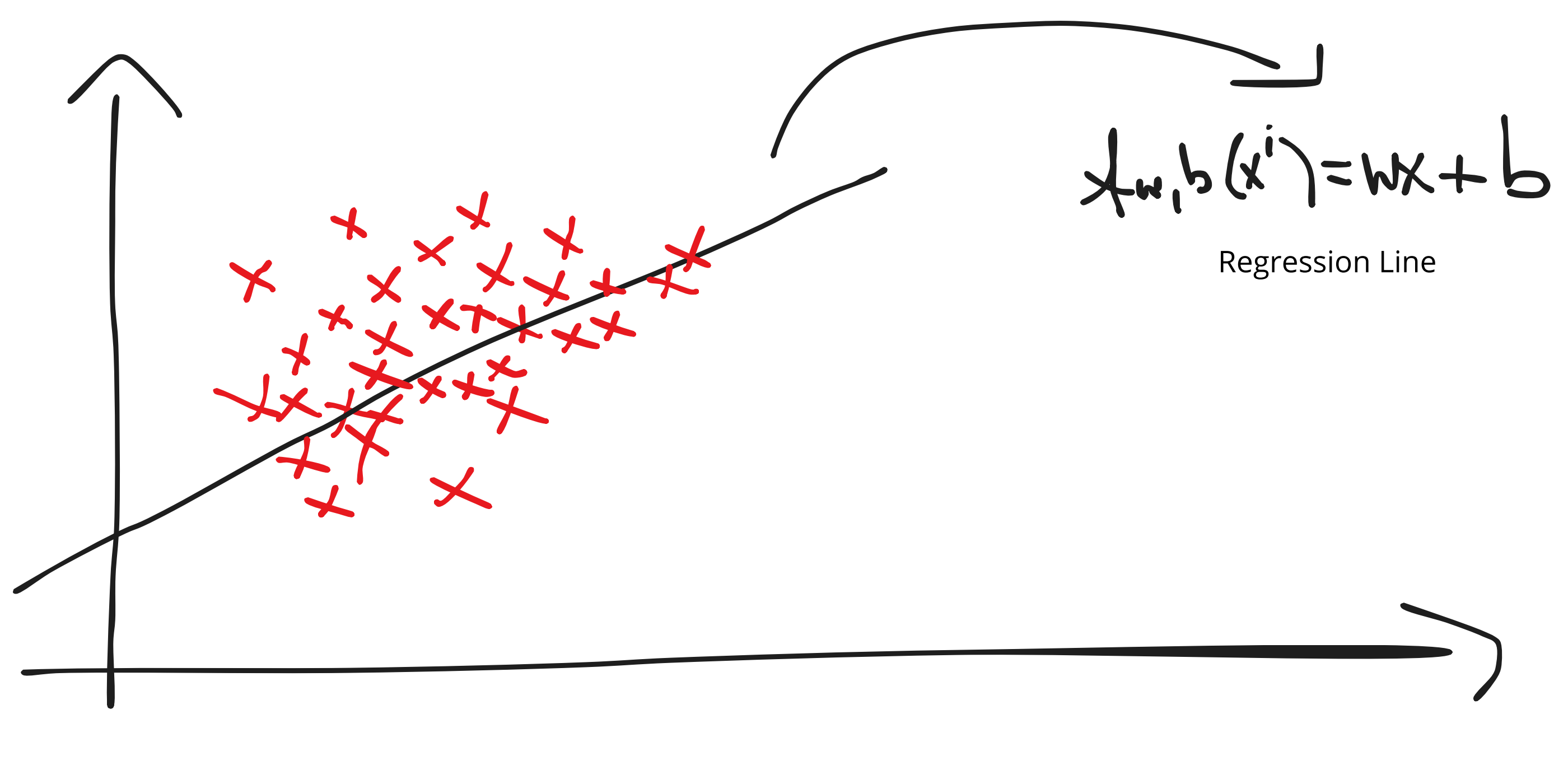
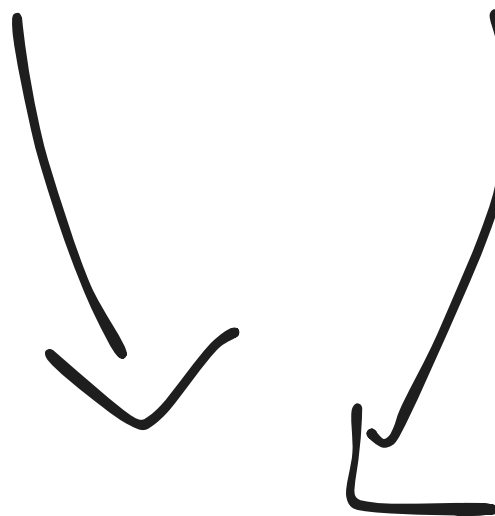


$$f_{w,b}(x) = wx + b$$

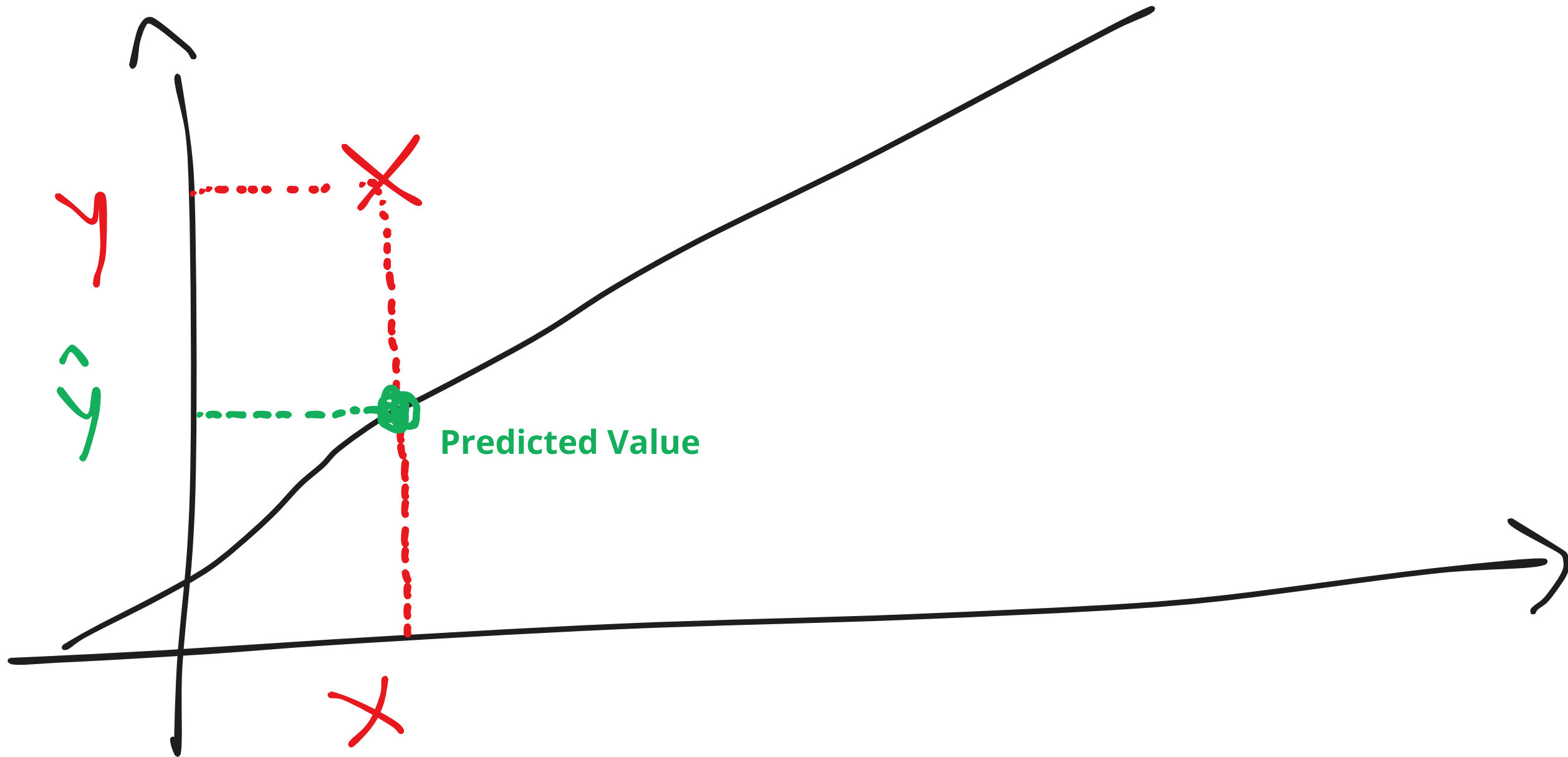
Model equation



$$f_{w,b}(x) = wx + b$$



Parameters



$$\hat{y} - y \longrightarrow$$

Error: difference between predicted y and actual value of y . It is measured for each point in the dataset

$$J(w, b) = \frac{1}{2m} \sum_{i=1}^m \left(f_{w,b}(x^{(i)}) - y^{(i)} \right)^2$$

**COST FUNCTION FOR LINEAR
REGRESSION**

m = number of samples (i.e.,
points in the dataset)