objective: $-\frac{\min}{\omega}$, b

leavining wave $J(\vec{w},b) = \text{after 100 iterations}$ $J(\vec{w},b) = \text{after 200 iterations}$ $\Rightarrow J(\vec{w},b) \text{ should decuase}$ after each iteration

where has flattered out

iterations needed varies :- 30 - 2000 . . .

Automatic convergence

E then declare convergence. (for eg. E can be 0.001→10⁻³)

Using graphs is better to analyze convergence because it can be hard to find the adequate value for epsilon.

We decide an & value. If the decrease in $J(\vec{w}, b)$ is less than