

Extreme Value Theorem

EVT doesn't tell us how to compute the max or min.

1. Extreme Value Theorem.

If f is a continuous function on an interval $[a, b]$, then f has a maximum and a minimum on $[a, b]$.

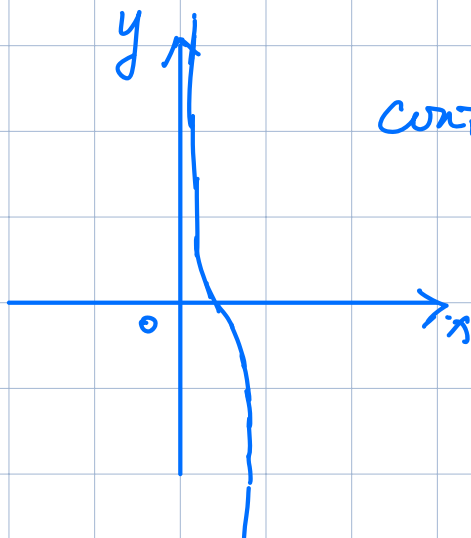
If we don't specify,

"the maximum of f " means "the maximum of f on its domain".

2. Maximum:

We say that a function f has a maximum on a set I when:

$$\exists c \in I, \text{ s.t. } \forall x \in I, f(x) \leq f(c)$$



continuous on $(0, 1]$.
on max/min
 $y = \cot(\pi x)$

