

Unit 7: Optimization

Vocabulary and notation

maximum	minimum	maximum over an interval	minimum over an interval
local maximum	local minimum	global maximum	global minimum
extremum	critical point	objective function	

plurals of the terms “maximum”, “minimum” and “extremum”

Skills

- Procedure for finding extrema of piecewise differentiable functions
- Know under what conditions a maximum must exist
- Second derivative test for a maximum versus a minimum
- [Parametrizing to set up a max/min problem](#)