

REAL CONVEX OPTIMIZATION PROBLEMS

Definition

Suppose $X \subset \mathbf{R}^d$ and $f: \mathbf{R}^d \to \mathbf{R}$. An optimization problem (X, f) is convex (a convex optimization problem, convex program, ordinary convex program) if X is a convex set and f is a convex function.

Other terminology

