

# 4 Practice Problems Quadratic Functions

## Loss function

based on the quadratic loss function. The quadratic loss function is also used in linear-quadratic optimal control problems. In these problems, even in the...

## Quadratic equation

solutions of the equation, and roots or zeros of the quadratic function on its left-hand side. A quadratic equation has at most two solutions. If there is...

## Linear–quadratic regulator

by a quadratic function is called the LQ problem. One of the main results in the theory is that the solution is provided by the linear–quadratic regulator...

## Knapsack problem

Optimization Methods for Quadratic Knapsack Problems". J Optim Theory Appl. 151 (2): 241–259. doi:10.1007/s10957-011-9885-4. S2CID 31208118. Gallo, G...

## Interior-point method (section Quadratically constrained quadratic programs)

\\end{aligned}} We assume that the constraint functions belong to some family (e.g. quadratic functions), so that the program can be represented by a...

## Activation function

weights. Nontrivial problems can be solved using only a few nodes if the activation function is nonlinear. Modern activation functions include the logistic...

## Gradient descent

$\eta$  on every iteration, can be performed analytically for quadratic functions, and explicit formulas for the locally optimal  $\eta$ ...

## Convex optimization (redirect from Convex problem)

optimization that studies the problem of minimizing convex functions over convex sets (or, equivalently, maximizing concave functions over convex sets). Many...

## Transportation theory (mathematics) (redirect from Transport problem)

Mathematical Soc. p. 66. ISBN 978-0-8218-3312-4. Singiresu S. Rao (2009). Engineering Optimization: Theory and Practice (4th ed.). John Wiley & Sons. p. 221....

## Quadratic sieve

The quadratic sieve algorithm (QS) is an integer factorization algorithm and, in practice, the second-fastest method known (after the general number field...

## **Non-uniform rational B-spline (section Construction of the basis functions)**

span, the peak in the quadratic basis function is more distinct, reaching almost one. Conversely, the adjoining basis functions fall to zero more quickly...

## **Spline (mathematics) (redirect from Quadratic spline)**

In mathematics, a spline is a function defined piecewise by polynomials. In interpolating problems, spline interpolation is often preferred to polynomial...

## **Discriminant (redirect from Discriminant of a quadratic form)**

algebraic geometry. The discriminant of the quadratic polynomial  $ax^2 + bx + c$  is  $b^2 - 4ac$ , the...

## **Riemann hypothesis (redirect from Hilberts eighth problem)**

Unsolved problem in mathematics Do all non-trivial zeros of the Riemann zeta function have a real part of one half? More unsolved problems in mathematics...

## **Newton's method (section Proof of quadratic convergence for Newton's iterative method)**

and that  $f$  is a smooth function. So, even before any computation, it is known that any convergent Newton iteration has a quadratic rate of convergence....

## **Minkowski's question-mark function**

question-mark function, denoted  $?(x)$ , is a function with unusual fractal properties, defined by Hermann Minkowski in 1904. It maps quadratic irrational numbers...

## **Number theory**

mathematics devoted primarily to the study of the integers and arithmetic functions. Number theorists study prime numbers as well as the properties of mathematical...

## **Normal distribution (redirect from Normal density function)**

$+Y_{\{m\}^2}^2/m\} \sim F_{\{n,m\}}.$  A quadratic form of a normal vector, i.e. a quadratic function  $q = \sum x_i^2 + \sum x_j + c$

## **Production function**

Shephard's distance functions or, alternatively, directional distance functions, which are generalizations of the simple production function in economics. In...

## **Radial basis function interpolation**

definite function. Such functions, including the Gaussian, inverse quadratic, and inverse multiquadric are often used as radial basis functions for this...

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