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In the case of convex functions of several variables (multivariate convex functions) we have. $f' + (x, 0) = (f'_{x_1} + (x, 0), \dots, f'_{x_n} + (x, 0))$, where f_{x_1}, \dots, f_{x_n} are the right-hand partial derivatives of f . In this case (1.30) and (1.31) become. (1.32) $f(x) - f(x, 0) \geq \sum_{i=1}^n f'_{x_i} + (x, 0), x - x, 0 \in \mathbb{R}^n$, and.

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In mathematics, a Schur-convex function, also known as S-convex, isotonic function and order-preserving function is a function $f: \mathbb{R}^d \rightarrow \mathbb{R}$ that for all $x, y \in \mathbb{R}^d$ such that x is majorized by y , one has that $f(x) \leq f(y)$. Named after Issai Schur, Schur-convex functions are used in the study of majorization. Every ...

Schur-convex function - Wikipedia

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For all $x, y \in \text{dom } f$ and $0 < \theta < 1$. Examples of log-concave functions are the 0-1 indicator functions of convex sets (which requires the more flexible definition), and the Gaussian function. Similarly, a function is log-convex if it satisfies the reverse inequality. $f(\theta x + (1 - \theta)y) \leq f(x)^\theta f(y)^{1 - \theta}$.

Logarithmically concave function - Wikipedia

Convexity of S is defined with respect to closed cone partial orderings, or more general binary relations, on the range off. Two different methods of proof are given, one based on geometric properties of convex sets and the other based on the Strong Law of Large Numbers.

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