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In the case of convex functions of several variables (multivariate convex functions) we have.  $f(x) = (f_1(x), \dots, f_n(x))$ , where  $f_1, \dots, f_n$  are the right-hand partial derivatives of  $f$ . In this case (1.30) and (1.31) become. (1.32)  $f(x) \geq f(x_0) + \sum_{i=1}^n f_i(x_0)(x_i - x_{i0})$ , and.

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In the case of convex functions of several variables (multivariate convex functions) we have.  $f'_+(x_0) = (f'_{+1}(x_0), \dots, f'_{+n}(x_0))$ , where  $f'_{+1}, \dots, f'_{+n}$  are the right-hand partial derivatives of  $f$ . In this case (1.30) and (1.31) become. (1.32)  $f(x) \geq f(x_0) + f'_+(x_0)(x - x_0)$

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$x_0) ? ? f ? + ( x_0), x ? x_0 ?,$  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 ...

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Schur-convex function - Wikipedia

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for all  $x, y \in \text{dom } f$  and  $0 < \lambda < 1$ . 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

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is log-convex if it satisfies the reverse inequality.  $f(\lambda x + (1-\lambda)y) \leq f(x) \lambda f(y)$ .

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Logarithmically concave function - Wikipedia  
Convexity of  $S$  is defined with respect to closed cone partial orderings, or more general binary relations, on the range of  $f$ . 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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