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definition 1 a function φ e r is said to be differentiable at a pointe eif the following limit exists φ e d dx φ e lim ϵ 0 φ e ϵ φ e ϵ if this limit exists for all points xof e we note x e then φ is said to be differentiable one or simply differentiable f x 3 x 2 1 2 2x 6x x 2 1 2 f x 3 x 2 1 2 2 x 6 x x 2 1 2 x 2 1 0 x 2 1 0 x 2 1 0 x 0 1 x 1 x 1 x 1 x 1 x 1 x 1 x 2 4 4x 2x 1 x 2 2 4 4x 2 x 1 x 2 2 f x 1 x 2 4 4 x 2 x 1 x 2 4 4 x 2 x 1 x 2 2 problem 1 f x x 3 3 x 2 12 what is the absolute maximum value of f over the closed interval 2 4 choose 1 answer choice a 12 a 12 choice b 12 b 12 choice c 28 c 28 choice d 38 d 38 check the theoretical minimum is the answer the term theoretical minimum was not my own invention it originated with the great russian physicist lev landau the tm in russia meant everything a student needed to know to work under landau himself landau was a very demanding man his theoretical minimum meant just about everything he knew which of definition absolute extrema let f be a function defined over an interval i and let c i we say f has an absolute maximum on i at c if f c f x for all x i we say f has an absolute minimum on i at c if f c f x for all x i we hit a maximum point right over here right at the beginning of our interval it looks like when x is equal to 0 this is the absolute maximum point for the interval and the absolute minimum point for the interval happens at the other endpoint so if this a this is b the absolute minimum point is f of b answer absolute minimum latex x 3 latex latex y 135 latex local maximum latex x 0 latex latex y 0 latex local minimum latex x 1 latex latex y 7 latex solutions to exercises for the theoretical minimum lecture 1 requires either mathematica 8 or later or the free mathematica cdf viewer though the viewer cannot run the programs you can find that here exercise 1 exercise 2 exercise 3 interlude 1 exercise 1 exercise 2 exercise 3 exercise 5 exercise 6 we say that f x f x has a relative or local maximum at x c x c if f x f c f x f c f or every x x in some open interval around x c x c we say that f x f x has an absolute or global minimum at x c x c if f x f c f or every x x in the domain we are working on step 1 finding f x to find the relative extremum points of f we must use f so we start with differentiating f f x x 2 2 x x 1 2 show calculation the function f x 2x 2 5x 4 would become f 1 25 2 1 25 2 5 1 25 4 or f 1 25 0 875 if the parabola opens upward your answer will be the minimum value if the parabola opens downward your answer is the maximum value in this example since the parabola opens upward f 1 25 0 875 is the minimum value of the function free minimum calculator find the minimum of a data set step by step 3 answers sorted by 37 linear system ax b a x b where a cm np a c p m n and the data vector b cm b c m the solution vector in x cn x c n least squares problem a least squares solution is guaranteed to exist and is defined by xls x cn ax b 22 is minimized x l s x c n a x b 2 2 is minimized see maximum illustrated definition of minimum the smallest value the minimum of 14 4 16 12 is 4 try it yourself below minimum calculator natural language math input extended keyboard examples upload compute answers using wolfram s breakthrough technology knowledgebase relied on by millions of students professionals for math science nutrition history geography engineering mathematics linguistics sports finance music n n 1 n hyperplane hyperplane optimizing in higher dimensions one of the most important applications of calculus is its ability to sniff out the maximum or the minimum of a function grammar wordplay word finder more definition example sentences entries near show more save word at a the minimum idiom at least well need 10 years at a the minimum examples of at a the minimum in a sentence answer the absolute maximum is 3 and it occurs at x 4 the absolute minimum is 1 and it occurs at x 2 elsewhere in other sources from five to eight million is considered the minimum threshold alongside a population density of at least 2 000 per square kilometre the terms conurbation metropolis and metroplex are also applied to the latter the standard minimum rules for the treatment of prisoners which were adopted by the first united nations congress on the prevention of crime and the treatment of offenders held at geneva from 22 august to 3 september 1955 and were subsequently approved by the economic and social council in its reso

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