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Bartle - Introduction To Real Analysis - Chapter 6 Solutions Bartle - Introduction To Real Analysis - Chapter 6 Solutions Section 6.2 Problem 6.2-4. Let  $A = \{a_1, a_2, \dots, a_n\}$  be real numbers and let  $f$  be defined on  $\mathbb{R}$  by  $f(x) = \sum_{i=1}^n (a_i - x)^2$  for  $x \in \mathbb{R}$ . Find the unique point of relative minimum for  $f$ . Solution: The first derivative of  $f$  is:  $f'(x) = 2 \sum_{i=1}^n (a_i - x)$ : Equating  $f'$  to zero, we

Find the relative extrema of  $f(x) = \sum_{n=1}^{\infty} (a - x)^n$  as follows:  $f'(x) = \sum_{n=1}^{\infty} -n(a - x)^{n-1} = -\sum_{n=1}^{\infty} n(a - x)^{n-1}$ . Jan 7th, 2024 Bartle - Introduction To Real Analysis - Chapter 8 Solutions Bartle - Introduction To Real Analysis - Chapter 8 Solutions Section 8.1 Problem 8.1-2. Show that  $\lim_{n \rightarrow \infty} (1 + n^2 x^2)^{-n} = 0$  for all  $x \in \mathbb{R}$ . Solution: For  $x = 0$ , we have  $\lim_{n \rightarrow \infty} (1 + n^2 x^2)^{-n} = \lim_{n \rightarrow \infty} (1)^{-n} = 1$ , so  $f(0) = 1$ . For  $x \neq 0$ , observe that  $1 + n^2 x^2 > n^2 x^2$ , so  $(1 + n^2 x^2)^{-n} < (n^2 x^2)^{-n} = n^{-2n} |x|^{-2n}$ . Since  $n^{-2n} |x|^{-2n} \rightarrow 0$  as  $n \rightarrow \infty$ , we conclude that  $\lim_{n \rightarrow \infty} (1 + n^2 x^2)^{-n} = 0$  for all  $x \neq 0$ .