Problem 4 (due Monday, October 25) a) Let  $x_1, dots, x_n$  be real numbers. Prove that  $[ \sum_{i=1}^n \sum_{j=1}^n \int_{\frac{1}{n} \sum_{i=1}^n \sum_{j=1}^n \int_{\frac{1}{n} \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_$ 

The problem was solved by Ashton Keith. Ashton's solution is similar to our solution. For details see the following link Solution.

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