1. (2 points) Section 1.6, Problem 16

2. (2 points) Section 1.6, Problem 27

3. (2 points) Section 1.6, Problem 29

4. (2 points) Section 1.7, Problem 29

5. (2 points) Let $n$ be a positive integer. Let $x_1, x_2, \ldots, x_n$ be real numbers. Let $A = \frac{1}{n}(x_1 + \ldots + x_n)$. Prove that $\exists i \in \{1, \ldots, n\} : x_i \geq A$. 