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Problem Set 8

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Question 1

Suppose that $f : [a, b] \rightarrow \mathbb{R}$, is integrable, and suppose that $m = \inf\{f(x) : x \in [a, b]\}$ and $M = \sup\{f(x) : x \in [a, b]\}$. Then, we have $m(b - a) \leq \int_a^b f \leq M(b - a)$.