극값정리
(The Extreme Value Theorem)

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Theorem

Theorem

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Theorem

$\quad$ *f is continuous*

Theorem

$$\left[\begin{array}{l} f \text{ is continuous} \\ \quad \text{on } [a, b]. \end{array}\right.$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array}\right]$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array} \right] \Rightarrow$$

Theorem

$$
\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array}\right] \Rightarrow \left[\; f \text{ attains} \right.
$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array} \right] \Rightarrow \left[f \text{ attains} \quad \text{an absolute maximum value} \right.$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array}\right] \Rightarrow \left[\begin{array}{c} f \text{ attains} \quad \begin{array}{c} \text{an absolute maximum value} \\ \text{and} \end{array} \end{array}\right.$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array} \right] \Rightarrow \left[f \text{ attains} \begin{array}{c} \text{an absolute maximum value} \\ \text{and} \\ \text{an absolute minimum value.} \end{array} \right.$$

Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array} \right] \Rightarrow \left[f \text{ attains} \begin{array}{c} \text{an absolute maximum value} \\ \text{and} \\ \text{an absolute minimum value.} \end{array} \right]$$

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Theorem

$$\left[\begin{array}{c} f \text{ is continuous} \\ \text{on } [a, b]. \end{array}\right] \Rightarrow \left[\begin{array}{c} f \text{ attains} \quad \begin{array}{c} \text{an absolute maximum value} \\ \text{and} \\ \text{an absolute minimum value.} \end{array} \end{array}\right]$$

Github:
https://min7014.github.io/math20240221001.html

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and you can see a picture moving.