

AP Calculus AB - Mean Value Theorem and Extreme Value Theorem - Quiz

Common Core AP CALC AB 5.1, AP CALC AB 5.2, AP CALC AB 5.3 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

Test yourself on the Mean Value Theorem, the Extreme Value Theorem, critical numbers and absolute extrema on closed intervals with 10 multiple-choice questions. Pick one answer for each question, then read the explanation to see why it is right and which common mistake the other choices represent.

AP Calculus AB · Common Core State Standards: **AP CALC AB 5.1, AP CALC AB 5.2, AP CALC AB 5.3**

Remember

- MVT: $f'(c) = (f(b) - f(a))/(b - a)$ for some c in (a, b) , if f is continuous and differentiable.
- EVT: a continuous function on a closed interval has an absolute maximum and an absolute minimum.
- Critical numbers are where $f' = 0$ or f' is undefined (inside the domain).
- Candidates test: compare f at endpoints and critical numbers.