

AP Calculus AB - Fundamental Theorem of Calculus and Antiderivatives - Quiz

Common Core AP CALC AB 6.4, AP CALC AB 6.5, AP CALC AB 6.6, AP CALC AB 6.7, AP CALC AB 6.8 · maths-pdf.fr/en/

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

Test yourself on accumulation functions, both parts of the Fundamental Theorem of Calculus, basic antiderivatives and initial value problems 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.

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Remember

- FTC Part 1: $\frac{d}{dx}$ of the integral from a to x of $f(t) dt$ equals $f(x)$.
- FTC Part 2: the integral from a to b of f equals $F(b) - F(a)$ for any antiderivative F .
- For an upper limit $g(x)$, multiply by $g'(x)$ (chain rule).
- Every indefinite integral needs $+ C$; an initial condition determines C .