

AP Calculus AB - Power, Sum and Basic Function Derivative Rules - Quiz

Common Core AP CALC AB 2.5, AP CALC AB 2.6, AP CALC AB 2.7 · maths-pdf.fr/en/

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

Test yourself on the power rule, sum and constant multiple rules, derivatives of $\sin x$, $\cos x$, e^x and $\ln x$, and tangent and normal lines 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 2.5, AP CALC AB 2.6, AP CALC AB 2.7**

Remember

- Power rule: d/dx of x^n equals $n x^{(n-1)}$; the derivative of a constant is 0.
- Rewrite roots and reciprocals as powers before differentiating.
- The derivatives of $\sin x$, $\cos x$, e^x and $\ln x$ are $\cos x$, $-\sin x$, e^x and $1/x$.
- A normal line has slope equal to the negative reciprocal of the tangent slope.