

AP Calculus AB - Derivatives of Inverse Functions - Quiz

Common Core AP CALC AB 3.3, AP CALC AB 3.4, AP CALC AB 3.5, AP CALC AB 3.6 · maths-pdf.fr/en/

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

Test yourself on derivatives of inverse functions, derivatives of inverse trigonometric functions, choosing differentiation methods and higher-order derivatives 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 3.3, AP CALC AB 3.4, AP CALC AB 3.5, AP CALC AB 3.6**

Remember

- $(f^{-1})'(b) = 1/f'(a)$ where $f(a) = b$; evaluate f' at a , not at b .
- $d/dx \sin^{-1}x = 1/\sqrt{1-x^2}$, $d/dx \cos^{-1}x = -1/\sqrt{1-x^2}$, $d/dx \tan^{-1}x = 1/(1+x^2)$.
- The second derivative is the derivative of the first derivative; acceleration is the second derivative of position.
- Choose the rule by the outermost operation: sum, product, quotient or composition.