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Derivatives Of Inverse Functions Homework Answers

Solutions
Honcwonk Cosignment \# 27-Math 131

1. $\frac{d}{d x}\left[\log _{a} x\right]=\frac{1}{\ln a x}, \frac{d}{d x}\left[\log _{a} f(x)\right]=\frac{1}{\ln a f(x)} \cdot f^{\prime}(x)$
2. Page 252: \#5 $f(x)=\log _{3}\left(x^{2}-4\right), f^{\prime}(x)=\frac{1}{(\ln 3)\left(x^{2}-4\right)}(2 x)=\frac{2 x}{\left(\ln ^{3}\right)\left(x^{2}-4\right)}$
\#6. $f(x)=\log _{10}\left(\frac{x}{x-1}\right), f^{\prime}(x)=\frac{1}{(\ln 10)\left(\frac{x}{x-1}\right)} \cdot \frac{1 \cdot(x-1)-x(1)}{(x-1)^{2}}=\frac{1}{\ln 10} \cdot \frac{-1}{x(x-1)}$
\# 15. $y=\ln \left(e^{-x}+x e^{-x}\right)$

$$
\begin{aligned}
y^{\prime} & =\frac{1}{e^{-x}+x e^{-x}} \frac{d}{d x}\left[e^{-x}+x e^{-x}\right]=\frac{1}{e^{-x}(x+1)}\left[-e^{-x}+x e^{-x}+x\left(-e^{-x}\right)\right] \\
& =\frac{-x e^{-x}}{e^{-x}(x+1)}=\frac{-x}{x+1}
\end{aligned}
$$

\# $17 \quad y=\log _{10} x, \quad y^{\prime}=\frac{1}{(\ln 10)} \cdot \frac{1}{x}$

$$
y^{\prime \prime}=\frac{1}{\ln 10} \frac{d}{d x}\left[\frac{1}{x}\right]=\frac{1}{\ln 10} \frac{d}{d x}\left[x^{-1}\right]=\frac{1}{\ln 10}(-1) x^{-2}=-\frac{1}{(\ln 10) x^{2}}
$$

\# $21 f(x)=\frac{x}{\ln x} \cdot f^{\prime}(x)=\frac{1 \cdot \ln x-x \cdot \frac{1}{x}}{(\ln x)^{2}}=\frac{\ln x-1}{(\ln x)^{2}}$

$$
f^{\prime}(e)=\frac{\ln e-1}{(\ln e)^{2}}=\frac{1-1}{1}=0
$$

\#23. (a) $f(x)=x \ln x, f^{\prime}(x)=\ln x+x, \frac{1}{x}=\ln x+1<0$.
$\ln x<-1, \quad x<e^{-1}$. Fis decreasing on $\left(0, e^{-1}\right)$.
(b) $f^{\prime}(x)=\frac{1}{x}>0, x>0$, $f$ is concane upon $(0,+\infty)$.
\#29. $y=x^{x}$. (1) $\ln y=\ln x^{x}=x \ln x$
(2) $\frac{1}{y} y^{\prime}=1 \cdot \ln x+x \cdot \frac{1}{x}=\ln x+1$
(3) $y^{\prime}=y(\ln x+1)=x^{x}(\ln x+1)$

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I can calculate derivatives of inverse functions. ... Your students will be better prepared for the test if they can confidently answer these questions. Access .... Browse derivatives of inverse functions resources on Teachers Pay ... The bottom part of the worksheet includes the answers to the .... Worksheet by Kuta Software LLC. Kuta Software - Infinite Calculus ... Derivatives of Inverse Functions. For each problem, find (f. -1$)^{\prime}(x)$ by direct computation.. Answer to 13. Derivatives of Inverse FunctionsHomework Find the derivative of $f$ at the specified value of $x$ for the given functio.... Suppose we wanted to find the derivative of the inverse, but do not have an actual formula for the inverse function? Then we can use the following derivative .... AP Calculus. 3.8 Worksheet ... Unsupported answers may receive NO credit. 1. What are ... remember the rule for finding the derivative of an inverse function? 7.. sinx, $\cos x, \tan x, \cot x, \sec x, \csc x$. In this section, we are going to look at the derivatives of the inverse trigonometric functions .... Derivatives of Inverse Functions - Homework. For the problems below, find the derivative of ful for the function $f$ at the specified value of $x$. No calculators. $2=X+2 x \ldots$. Then we'll talk about the more common inverses and their derivatives. What are Inverse Functions? Basically, an inverse function is a function .... Compare the result obtained by differentiating $\mathrm{g}(\mathrm{x})$ directly. Hint. Use the preceding example as a guide. Answer.. Derivatives of Inverse Functions by Direct Computation Worksheets Answer Page ... If You Experience Display Problems with Your Math Worksheet .... General Problem: Find the derivative of the inverse function of $f x()$ at $x=k$. Method 1: ... Note: After you graphically intersect, you can easily get the answer by. 1.. AP Calculus. CHAPTER 7 WORKSHEET. INVERSE FUNCTIONS. ANSWER KEY. Derivatives of Inverse Functions. 1. ( ). ( )1. 4. ' 2. 3. -. = -. = xxx x xf. Performing .... Derivatives Of Inverse Functions Homework Answers ->>->>->> https://fancli.com/1m0uo6.. AP Calculus AB - Worksheet 122. Derivative of Inverse Functions. 1. Let ( ) 3. 2. 5. 8.f xxx. = -. - and let $g$ be the inverse function of f. (a) Find ( ).. Derivative of the inverse function at a point is the reciprocal of the derivative of the function at the corresponding point. Slope of the line tangent to at .... In particular, we will apply the formula for derivatives of inverse functions to trigonometric ... directly. [reveal-answer q="336869"]Show Solution[/reveal-answer]. ABCALC Derivatives of Inverse Functions Homework Solutions. 1. Page 2. ABCALC Derivatives of Inverse Functions Homework Solutions. 2 .... Which inverse trigonometric function g.x/ has the derivative g0.x/ D. $1 \times 2 \mathrm{C} 1$ ? ... This agrees with the answer we obtain by differentiating directly: g0.x/ D. 2x.

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