

Calculus II
Practice Problems 1: Answers

1. Solve for x :

a) $6^x = 36^{2-x}$

Answer. Since $36 = 6^2$, the equation becomes $6^x = 6^{2(2-x)}$, so we must have $x = 2(2-x)$ which has the solution $x = 4/3$.

b) $\ln_3 x = 5$

Answer. If we exponentiate both sides we get $x = 3^5 = 243$.

c) $\ln_2(x+1) - \ln_2(x-1) = \ln_2 8$

Answer. Since the difference of logarithms is the logarithm of the quotient, we rewrite this as

$$\ln_2\left(\frac{x+1}{x-1}\right) = \ln_2 8,$$

which is, after exponentiating, the same as

$$\frac{x+1}{x-1} = 8,$$

which gives us $x+1 = 8(x-1)$, so that $x = 9/7$.

2. Find the derivative of the given function:

a) $y = \ln(\ln x)$

Answer. Use the chain rule:

$$\frac{dy}{dx} = \frac{1}{\ln x} \frac{d}{dx} \ln x = \frac{1}{x \ln x}$$

b) $y = \log_2(x^2 + 1)$

Answer. Remember that $\log_2 A = \ln A / \ln 2$, so $y = (\ln(x^2 + 1)) / \ln 2$. Then, use the chain rule:

$$\frac{dy}{dx} = \frac{1}{(\ln 2)(x^2 + 1)} 2x = \frac{2}{\ln 2} \frac{x}{x^2 + 1}.$$

c) $y = \frac{e^{x^2}}{x}$

Answer. Use the quotient rule carefully:

$$\begin{aligned} \frac{dy}{dx} &= \frac{x(2xe^{x^2}) - e^{x^2}}{x^2} = 2e^{x^2} - x^{-2}e^{x^2} \\ &= e^{x^2}(2 - x^{-2}) \end{aligned}$$

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