

Name: _____

QUIZ 11 

MATH 200
September 26, 2024


1. $D_x \left[\ln |x^3| + (\ln |x|)^3 + x^3 \ln |x| \right] =$

2. $D_x \left[\ln \left| \sin(x) \cos(x) \right| \right] =$

3. $D_x \left[\frac{\ln(x)}{e^x} \right] =$

4. Find all x for which the tangent line to the graph of $f(x) = \ln |x| - \frac{x}{8}$ at $(x, f(x))$ is horizontal.

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1. $D_x \left[\ln |\sin(x)| + \sin(\ln|x|) + \sin(x) \ln|x| \right] =$

2. $D_x \left[\ln(x^2 + 3x - 4) \right] =$

3. $D_x \left[\frac{e^x}{\ln(x)} \right] =$

4. Consider the function $f(x) = 3 + \ln(x - 1)$. Find the equation of the tangent line to the graph of f at the point $(2, f(2))$.