

Name: _____

QUIZ 11 

MATH 200
September 28, 2023

1. Differentiate: $f(x) = \ln |5x^3 + 3x^2 + x|$


2. Differentiate: $y = \frac{1}{\ln(x)}$

3. Differentiate: $g(x) = \ln\left(\frac{1}{x}\right)$

4. Differentiate: $w = x - \frac{xe^x}{\ln(x)}$

5. Find the equation of the tangent line to the graph of $f(x) = 2 + x \ln(x)$ at the point $(1, f(1))$.

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QUIZ 11 

MATH 200
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1. Differentiate: $y = \cos(x) \ln(x)$

2. Differentiate: $f(x) = \cos(\ln(x))$

3. Differentiate: $g(x) = \ln(\cos(x))$

4. Differentiate: $y = 4 + \sqrt{x + x^2 \ln(x)}$

5. Find the equation of the tangent line to the graph of $f(x) = \ln(2x - 1)$ at the point $(1, f(1))$.