

M221 Review: Differentiation

Name: _____

Score: _____

1. Find the derivative of $(4y^2 + 4) \tan(2y)$

Answer: _____

2. Find the derivative of $\frac{4e^{-w} + 4}{9w^3 + 5}$

Answer: _____

3. Find the derivative of $\ln(\cos(4y))$

Answer: _____

4. Find the derivative of $\frac{w^5 \cos(w)}{w^2 + 4w}$

Answer: _____

5. Find the derivative of $(x^3 + 1)(\sin(x))^5$

Answer: _____

6. Find $\frac{dy}{dx}$ from $(e^{-3x} + e^y) + x^3 y^3 = 4$

Answer: _____

7. Find the derivative of $\cos(x^4 \ln(x))$

Answer: _____

8. Find the derivative of $(\ln(w^6 + 7w))^5$

Answer: _____

9. Find the derivative of $\frac{e^{-3x} + 3x}{\sin(9x^6)}$

Answer: _____

10. Find the derivative of $(3^t + \arcsin(t)) - 2t^{-4}$

Answer: _____