



Name: _____

Class: _____

Class #: _____

Section #: _____

Instructor

:

Assignment

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Question 1: (1 point)

$$f(x) = 14x^{11} + 21x^4 + 31 + \frac{3}{x^2}$$

Find the derivative of

Question 2: (1 point)Differentiate the function $g(t) = \cos(t) e^t$.

Question 3: (1 point)

Find the derivative of $h(z) = \frac{e^z}{\cos(z)}$.

Question 4: (1 point)

Find the derivative of $w(z) = \ln(1 + 3z + 10z^2)$.

Question 5: (1 point)

$$h(w) = 11 w^{\frac{23}{14}} + \frac{3}{w^{\frac{23}{14}}}$$

Find the derivative of

Question 6: (1 point)

Find the derivative of $p(x) = x^5 \cot(15 + 8x)$.

Question 7: (1 point)

Differentiate $f(x) = (\ln(2x))^5$.

Question 8: (1 point)

Find the derivative of $G(z) = (12 + 11z + e^z)^{37}$.

Question 9: (1 point)

Find the derivative of $w(z) = \sqrt[3]{(16 + 4z + 14z^2 + 7z^3)}$.

Question 10: (1 point)

Find the derivative of $f(x) = \frac{25 + 13x + 21x^2}{\sqrt{\cos(x)}}$.

Question 11: (1 point)

Find the antiderivative $\int (4 + 4x + 3x^2 + 3x^3 + 13x^4) dx$

Question 12: (1 point)

Find the antiderivative $\int 3 \sin(z) dz$
