

Name: _____

Class: _____

Class #: _____

Section #: _____

Instructor

:

Assignment

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Question 1: (1 point)

$$f(x) = 25x^{22} + 12x^8 + 17 + \frac{9}{x^5}$$

Find the derivative of

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

Question 3: (1 point)

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

Question 4: (1 point)

Find the derivative of $w(z) = \cos(14 + 14z + 3z^2)$.

Question 5: (1 point)

Find the derivative of $h(w) = 3w^{\frac{3}{8}} - w^{\frac{-15}{8}}$.

Question 6: (1 point)

Find the derivative of $p(x) = x^8 \ln(16 + 8x)$.

Question 7: (1 point)

Differentiate $f(x) = (\ln(7y))^7$.

Question 8: (1 point)

Find the derivative of $G(z) = (2 + 8z + \sin(z))^{35}$.

Question 9: (1 point)

Find the derivative of $w(z) = \sqrt[6]{(19 + 4z + 4z^2 + 11z^3)}$.

Question 10: (1 point)

Find the derivative of $f(x) = \frac{8 + 28x + x^2}{\sqrt{\cos(x)}}$.

Question 11: (1 point)

Find the antiderivative $\int (7 + 13x + 14x^2 + 3x^3 + 9x^4) dx$

Question 12: (1 point)

Find the antiderivative $\int -11 \cos(z) dz$
