



Name: \_\_\_\_\_

Class: \_\_\_\_\_

Class #: \_\_\_\_\_

Section #: \_\_\_\_\_

Instructor

:

Assignment

:

**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  $\int -11 \cos(z) dz$

---

---