

Name:

Section: 5 6 (circle one)

Score:

/10 HW 10 - Due: 9/17

Problem 1

Let $f(x) = 2 \sin(x^3) + 1$. Find $f'(x)$.

Problem 2

Find $\frac{d}{dx} \left((x^2 + 2x)^{50} \right)$.

Problem 3

Let $f(x) = \tan^2(x)$. Find $f'(x)$.

Problem 4

Find $\frac{d}{dx} \left(\sqrt[3]{\sin(x) + \cos(x)} \right)$.

Problem 5

Find $\frac{d}{dx} \left(\frac{\sin(x^2)}{\sin(2x+1)} \right)$.

Problem 6

Let $f(x) = 10(\cos(x^2) + x^2) \sin(x)$. Find $f'(x)$.

Problem 7

Let $f(x) = \frac{x \sin(x^2 + 1)}{x^2 + x + 1}$. Find $f'(x)$.