

# Math 2300-007: Quiz 9

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

Score: \_\_\_\_\_

1. (5 points) Find the 5th degree Taylor Polynomial for  $f(x) = \sin(x)$  centered at  $a = 0$ .

2. (5 points) What is the interval of convergence of the series  $\sum_{n=1}^{\infty} \frac{(-3)^n}{\sqrt{n}} (5x - 1)^n$ ?