

LAST NAME:

FIRST NAME:

MATH 009C - Summer 2017

Quiz 7: August 8, 2017

1. Find the radius of convergence and interval of convergence for the power series.

$$\sum_{n=1}^{\infty} \frac{(4x + 1)^n}{n^2}$$

Please, show all work.

2. Find the Taylor series centered at zero for the following function.

$$f(x) = x \cos\left(\frac{1}{2}x^2\right)$$

Please, show all work.