

LAST NAME:

FIRST NAME:

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**Math 65B - Summer 2016**

Quiz 11: Tuesday July 19, 2016

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

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

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Please, show all work.

2. (1 point) Find the Taylor series centered at zero for the following function.

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

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**Please, show all work.**