

Quiz 6, Calculus 2

Name: _____

1. (5 points) Use the Maclaurin series for $\cos x$ to obtain the Maclaurin series for

$$x \cos\left(\frac{x^2}{2}\right).$$

2. (5 points) Find a power series representation for

$$\frac{5x}{(1-x)^2}$$

and determine the radius of convergence.