Name

Quiz 1

1. Find the first 3 terms in the Taylor series expansion of

$$f(x) = \frac{1}{1 - x - x^2}.$$

2. Find the power series representation of

$$g(x) = \int e^{x^2} \mathrm{d}x.$$

- 3. True or False:
 - a) $\sum_{n=0}^{\infty} 3^n x^n$ has radius of convergence 1/3
 - b) The series $\sum_{n=1}^{\infty} \frac{1}{n}$ is convergent