

Attendance Quiz # 12 for Dr. Z.'s MathHistory for Lecture 12

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Using the definition of the Taylor expansion around $x = 0$ find the first three terms (i.e. $n = 0, 1, 2$) of the function $f(x) = e^{x+x^2}$.

2. Using the famous Taylor expansion (around $x = 0$) of the exponential function, (that you should memorize!), find the first five terms (i.e. $n = 0, 1, 2, 3, 4$, i.e. up to and including the fourth power, x^4) of the function $f(x) = e^{x+x^2}$.