

Chem. 540

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Math Problem 5

Expand the following functions in Taylor series about $x=0$ up to quadratic terms. Show your work.

- (a) e^x (b) xe^{-x^2} (c) $\cos x$ (d) $\ln(1+x)$ (e) $\sqrt{1+x^2}$ (f) $x^4 - x^2$