

Student Name: _____ Student Number: _____

Serial No.: _____

Instructor: M. Z. Abu-Sbeih

Math - 132.1

Quiz No. 4

Date: 10-4-2016.

Question 1: (6 points each) Evaluate the following integrals:

(a) $\int x e^{x^2} dx$

(b) $\int_1^2 \frac{x+1}{x} dx$

(c) $\int \frac{\ln x^3}{x} dx$

(d) $\int 2^{x+2} 5^x dx$

Question 2: (a) (7 Points) Use differentials to approximate $\sqrt[4]{17}$.

(b) (9 Points) Find the area enclosed by the graphs of $y = -1 - x$ and $y = 1 - x^2$.