Homework 7

Due on March 11 in class.

Exercise Set 2 is on Page 16 in the online notes

www.math.purdue.edu/∼zhan1966/teaching/362/diffforms.pdf

1. Prolem 1 in Exercise Set 2 in the notes.
2. Prolem 2 in Exercise Set 2 in the notes.
3. Prolem 5 in Exercise Set 2 in the notes.
4. Prolem 8 in Exercise Set 2 in the notes.
5. Let $f(x, y, z, t)$ be a C^2 four-variable function.
   (a) Compute df.
   (b) Use the properties of d to verify that $d(df) = 0$.