Due: November 18, 2016

MATH 320: HOMEWORK 7

Please read through chapters 14, 15.1-15.3, and 17 in the textbook. Answer the following questions. Please submit all code and output with brief descriptions of what you are doing.

- (1) Problem 14.5
- (2) Problem 14.34
- (3) Problem 15.12
- (4) Let z = f(x, y) be a function of two variables. Suppose we have the following 6 points:

\boldsymbol{x}	1	1	2	2	3	3
y	2	3	1	3	1	2
z	3	2	3	1	2	1

Find a degree-5 homogeneous polynomial in x and y that includes these six points. Plot the corresponding surface in MATLAB.