

**Math 217: Assignment 3 (Due Wednesday, Oct. 13)**

Suggested practice problems:

15.1 # 5, 9, 19, 27, 30, 32, 41, 45, 53-58, 59

15.2 # 11, 13, 23, 33

15.3 # 3, 5, 15, 19, 21, 35, 39, 43, 53, 57, 77, 81, 87

15.4 # 5, 11, 19, 27, 37

15.5 # 5, 9, 13, 17, 21, 27, 31, 39, 47, 51

Problems to hand in:

15.1 # 10, 26, 48

15.2 # 6, 10, 30

15.3 # 26, 44, 54, 78

15.4 # 6, 38

15.5 # 16, 40, 48, 56

**Bonus.** Prove the following: if a function  $f(x, y)$  is differentiable at  $(a, b)$ , then it is continuous at  $(a, b)$ .

*Sept. 29, 2004*