

## Math 242 - Homework 6

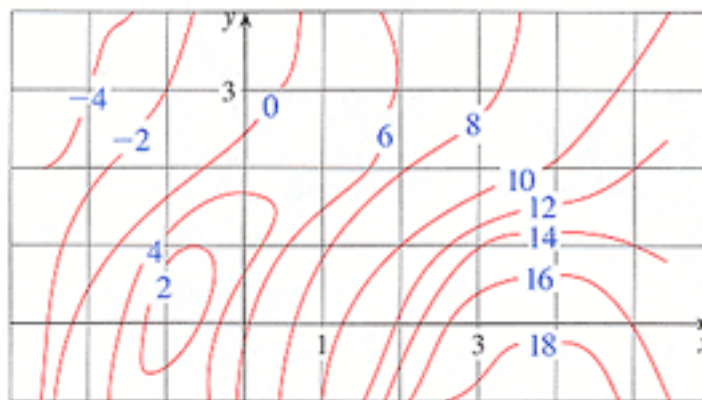
Due Thursday, October 9

### Exercises from the Book

- Chapter 1.9# 1, 2, 3, 4, 5

### Additional Exercises

1. A contour map for a map  $f(x, y)$  is shown below. Use it to estimate the value of  $f(2, 3)$  and  $f(4, 2)$ .



2. For each of the following, draw a contour map of the function showing several level curves.
  - (a)  $f(x, y) = xy$
  - (b)  $g(x, y) = x - y^2$
  - (c)  $h(x, y) = y \sec x$