

Name:

SM223 – Calculus III with Optimization
Assoc. Prof. Nelson Uhan

Fall 2017

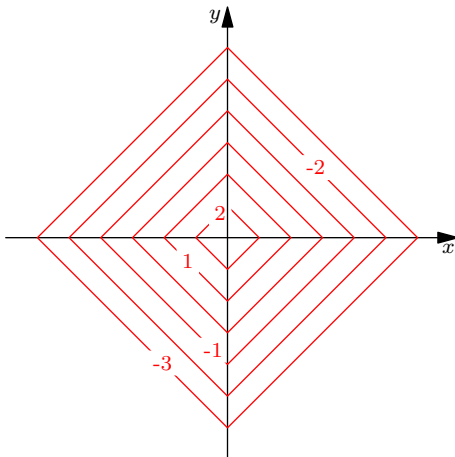
Quiz 5 – 28 September 2017

Instructions. You have 10 minutes to complete this quiz. You may use a calculator. You may not use any other materials (e.g., notes, homework, books). Show all your work.

Problem	Weight	Score
1	1	
2	1	
3	1	
Total		/ 30

Problem 1. A projectile is fired from the ground with an initial speed on 200 m/s and angle of elevation 60° . When does the projectile land?

Problem 2. Consider the contour map below of a function f . Either (i) describe the graph of f in words, or (ii) draw a rough sketch of the graph of f . Be as specific as you can.



(turn over)

Problem 3. Make a rough sketch of a contour map for the function whose graph is shown below. Be sure to draw contours for the regions outside the peaks.

