

Exercise 1

- No need to hand in
- There will be tutorial starting next week

1. Provide the graph of the following sets (except for obvious sets such as R^2, R_{++}^2, \emptyset)

(a) $\{(x, y) \in R_+^2 : xy \geq 1\}$

(b) $\{(x, y) \in R_+^2 : xy \geq -1\}$

(c) $\{(x, y) \in R^2 : e^{-(x^2+y^2)} \geq 2\}$

(d) $\{(x, y) \in R^2 : e^{-(x^2+y^2)} \geq 1/2\}$

(e) $\{(x, y) \in R^2 : e^{-(x^2+y^2)} \geq -2\}$

2. Questions from text book:

Page #	Exercise #	Question #
14	2.3	1
20	2.4	7
66	4.3	5(a) - 5(e)
69	4.4	1, 5(c), 5(d), 5(e), 6
72	4.5	1, 2