

1) Show the following regions on the x-y plane

- a)  $x - 2y \leq 2$
- b)  $x + 3y \geq 1$
- c)  $|x - y| \leq 1$
- d)  $|x + 2y| \leq 1$
- e)  $|x + y| \geq 1$

2)  $S = \{1, 2, 3\}$  → Sample space of an experiment

- a) Write all the events
- b) Find the prob. of every event.

3)  $S = \{1, 2, a\}$  → Sample space of an experiment

After a trial of the experiment

2 appeared as the outcome of the experiment

a) Which events occurred

b) Find the prob of each occurred event

4) Assume that you want to meet to a friend of yours at 12:00-13:00 in front of a building in Kingston. The first arrived person waits at most 20 minutes and leaves if the other did not come. What is the probability that they will meet.