EECS 302/MATH 304 Discrete Mathematics

Final Exam Practice Problems covering topics after Exam 2 (For topics up to Exam 2, See sample questions for earlier exams as well as the exam themselves)

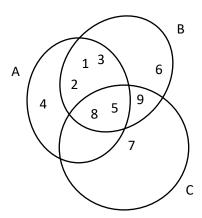
1. Topics: Decision tree and CART, use the last homework to practice

2.	Topics : Cardinality of a set and probability of an equally-likely random event and all counting topics in Chapter 9
	Sample Problems: 2.1 What is the probability that a up to 5-digit integer selected randomly will be divisible by 13?
	2.2 Given a group of 100 people, at minimum, how many people were born in the same month?
	2.3 In a class 81 students, if there are five possible grades <i>A</i> , <i>B</i> , <i>C</i> , <i>D</i> , <i>F</i> , at least how many students will receive the same letter grade?

2.5 Consider the Venn diagram below for sets A, B and C, write down all members of the set

$$(A-B)\cup((C-A)-B)$$

Then write down the power set of the resulting set



2.7 How many ways are there to distribute hands of 5 cards to each of four players from the standard deck of 52 cards?

3. Topics: Graphs and Digraphs

Sample problems: 3.1 How many edges are in K_5 ?