**Section 3.3**

**Activity 1**

Match each of the pairs of sets with the Venn diagrams provided

  

1. A = {even numbers} , B = {odd numbers}
2. A = {prime numbers} , B = {odd numbers}
3. A = {numbers divisible by 4}, B = {even numbers}
4. A = {students in this discrete class} , B = {students in data structures}
5. A = { students in this discrete class }, B = {students in Networking}
6. A = { students in this discrete class }, B = {students at UNI}

**Activity 2**

For each person in your group, create the pizza of your choice by creating a subset from the following set of toppings.

T = {pepperoni, sausage, Canadian bacon, mushroom, onion, green pepper, jalapeno peppers, anchovies, pineapple, corn}

**Activity 3**

Assume

* A = { letters in the word ELEPHANT }
* B = { letters in the word SYNCHOPHANT }
* C = {letters in the word FANTASTIC}
* D = {letters in the word STUDENT}

If the universe U is the set of 26 capital letters find:

1. A ∪ B
2. A ∩ B
3. A ∩ C
4. D ∪ A
5. (A ∩ C ) ∪ (B ∩ D)
6. A ∩ (C ∩ D)