MODULE 11.2 - VENN DIAGRAMS AND CARDINALITY

LEARNING OBJECTIVES

In this section, you will:
- Visualizing the union and intersection of sets using Venn Diagrams
- Cardinality of a set and the properties
- Finding cardinality using a Venn diagram

VENN DIAGRAMS

- State the definition of a Venn diagram.
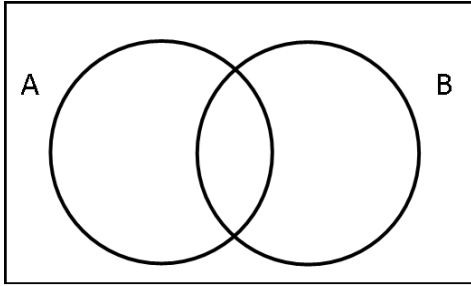
CARDINALITY

- State the definition of the cardinality of a set.

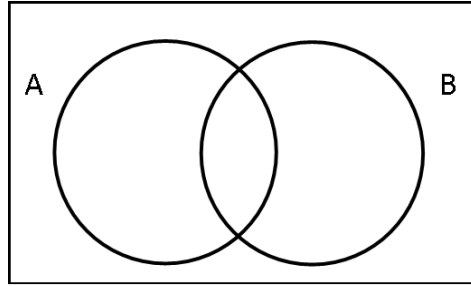- State the cardinality properties.

MODULE 11.2 - CLASS NOTES

For the following exercises, create a Venn diagram to illustrate the indicated interaction of sets.
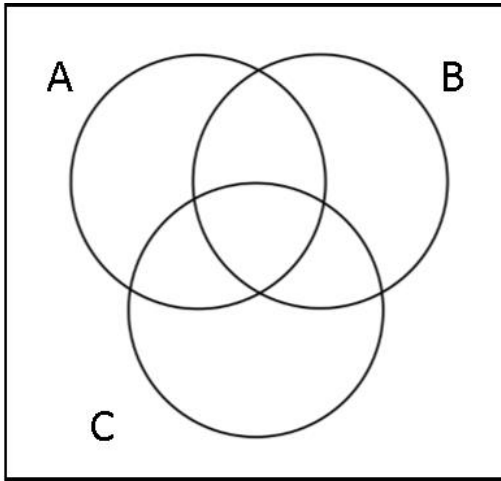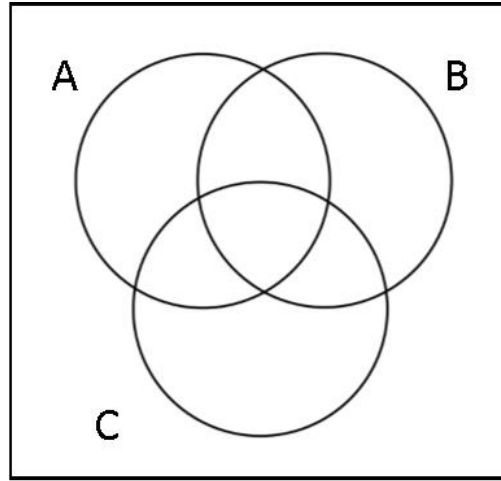
1. $A \cup B^C$

2. $A^C \cup B^C$

3. $(A \cup B) \cap C$

4. $A \cup (B^C \cap C)$

Fifty students were surveyed, and asked if they were taking a social science (SS), humanities (HM), or a natural science (NS) course the next quarter.

21 were taking a SS course   26 were taking a HM course   19 were taking a NS course   9 were taking a SS and HM
7 were taking a SS and NS   10 were taking HM and NS   3 were taking all three   7 were taking none

5. How many students are only taking a HM course?

6. How many students are taking a SS or a NS course?