

DATE - January 2021  
DEPT - AGRICULTURAL SCIENCE  
Maths no 19/Sci 07/006  
Topic MATH 101 Assignment  
COLLEGE SCIENCES

i. Define the following

• Empty Set

In Mathematics, the empty set is the unique set having no elements; its size or cardinality is zero. The empty set is a set which has no elements. Example of empty set: The set of dogs with six legs; The set of cars with 200 doors.

ii. Singleton Set

In Mathematics, a singleton, also known as a unit set, is a set with exactly one element for example, the set null is a singleton containing the element null.

2. If  $A = 2 + 7i$  and  $B = 9 - 5i$ ,  
find.

i.  $\text{Im}(A+B)$

ii.  $\text{Re}(B-A)$

1.  $\text{Im}(A+B)$

Solution

$$A = 2 + 7i$$

$$B = 9 - 5i$$

$$2 + 7i$$

$$9 - 5i$$

ii.  $\text{Re}(B-A)$

Solution

$$A = 2 + 7i$$

$$B = 9 - 5i$$

$$9 - 5i - 2 + 7i$$

$$7 - 2i$$

$$2 + 2i$$