

**Worksheet 1 – Intersection and Union of Sets**

For each given set below, find the intersection and union. Remember to use the curly braces and commas when listing members. (**DO NOT PUT SPACES BETWEEN THE ELEMENTS AND COMMAS**)

1.  $A = \{1,2,3,4,5,6,7,8\}$  and  $B = \{1,2,3,5,7,11\}$ ,

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$

2.  $A = \{4,5,6,7,10\}$  and  $B = \{5,7,11\}$

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$

3.  $A = \{4,6,8,10,12\}$  and  $B = \{3,6,9,12\}$

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$

4.  $A = \{0,2,4,6\}$  and  $B = \{1,3,5\}$

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$

5.  $A = \{-3,-2,-1,0\}$  and  $B = \{0,2,3,4\}$

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$

6.  $A = \{0,1,2,3,4,5\}$  and  $B = \{6,7,8,9,10\}$

List the members of:

(a)  $A \cap B =$

(b)  $A \cup B =$