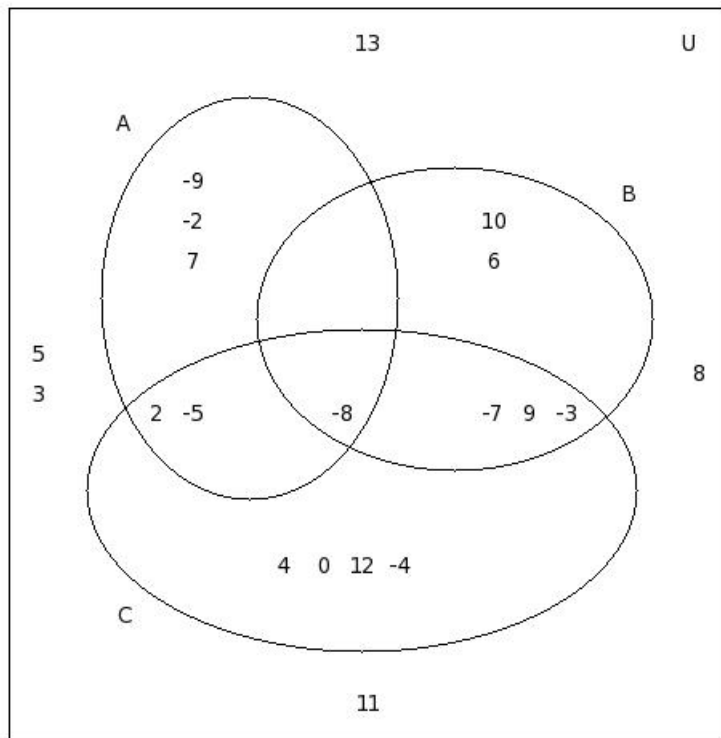
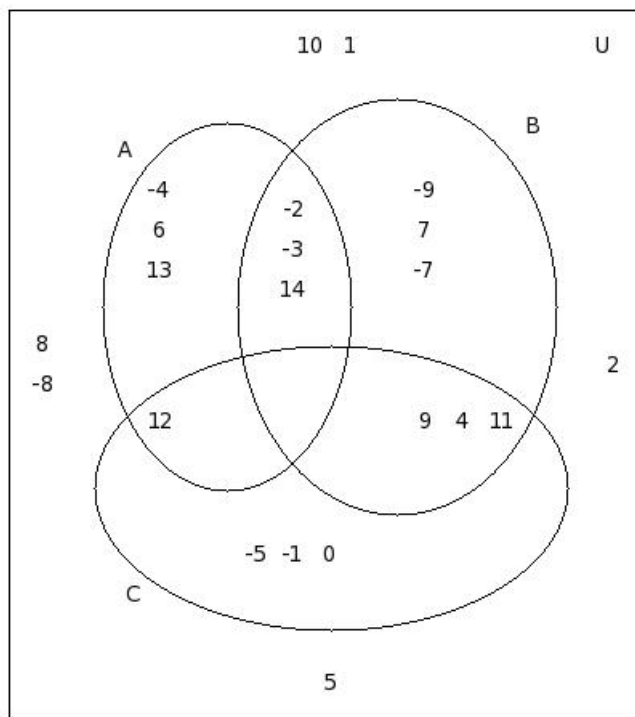


EduSahara™ Learning Center Assignment**Grade : Class VIII, ICSE****Chapter : Sets****Name : Three Set Problems****Licensed To : Teachers and Students for non-commercial use**

1. Find A

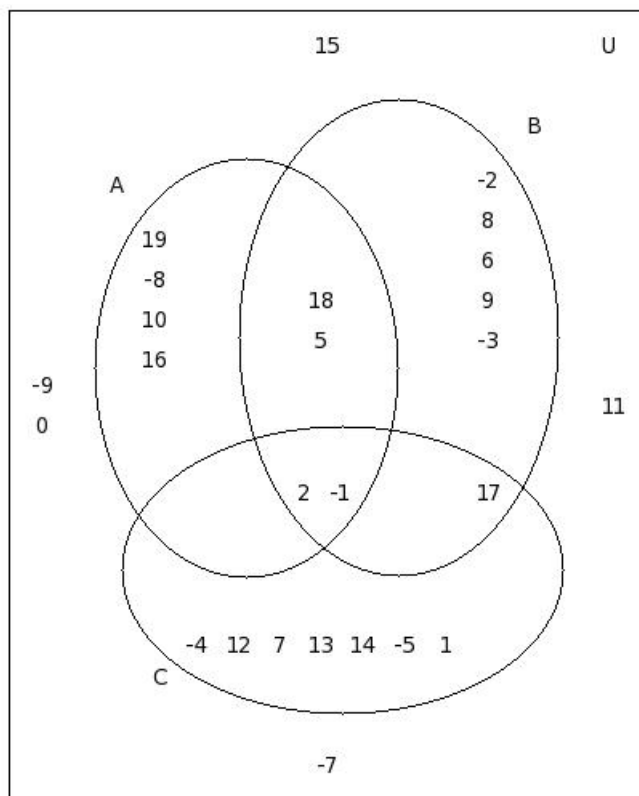
(i) $\{-9, -5, 2, -2, 7, -8, 11\}$ (ii) $\{-9, -5, 2, 7, -8\}$ (iii) $\{-9, -5, 2, -2, 7, -8\}$ (iv) $\{-9, -5, 2, 7, -8, 11\}$ (v) $\{-9, -5, -2, 7, -8, 0\}$

2. Find B



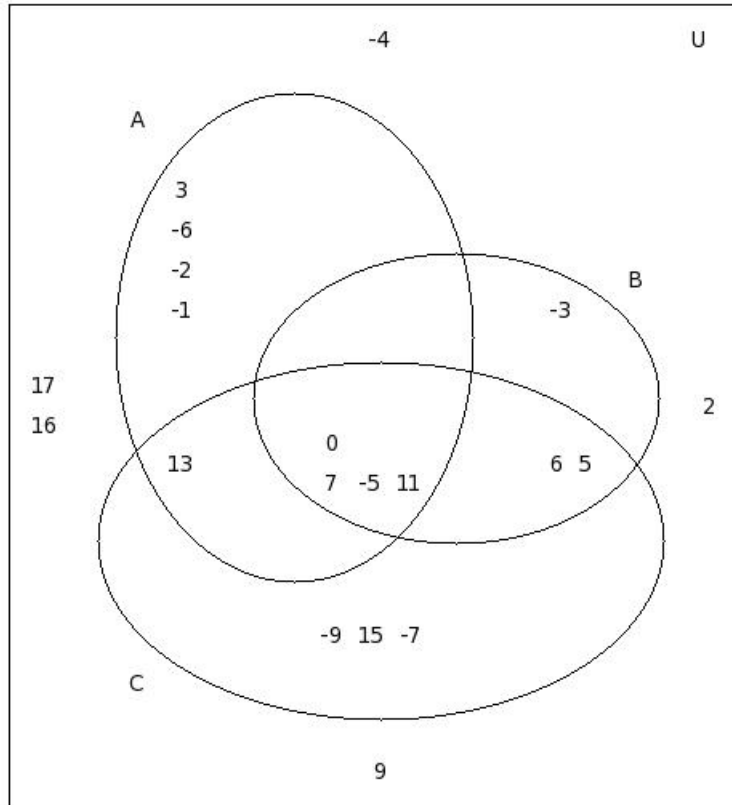
- (i) {9,-9,14,-3,-7,4,-2,7,11,1} (ii) {9,-9,14,-3,-7,4,7,11,-8}
 (iii) {9,-9,14,-3,-7,4,-2,11} (iv) {9,-9,14,-3,-7,4,-2,7,11}
 (v) {9,-9,14,-3,-7,4,-2,11,1}

3. Find C



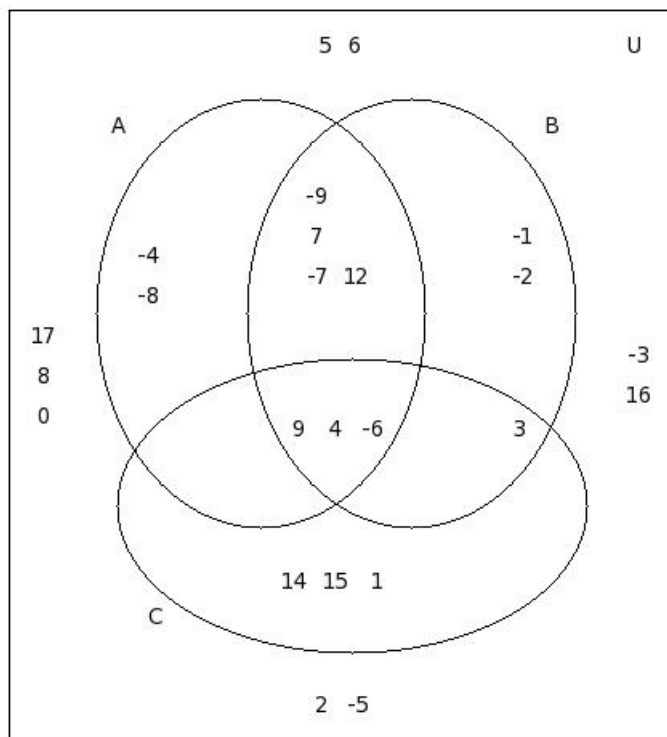
- (i) $\{-4, 2, 12, -5, 1, 7, 17, 13, 14, 8\}$ (ii) $\{-4, 12, -1, -5, 1, 7, 17, 13, 14, -9\}$
 (iii) $\{-4, 2, 12, -1, -5, 1, 7, 17, 13, 14\}$ (iv) $\{-4, 2, 12, -1, -5, 1, 7, 17, 13, 14, -9\}$
 (v) $\{-4, 2, 12, -1, -5, 1, 7, 17, 14\}$
-

4. Find $A \cup B$



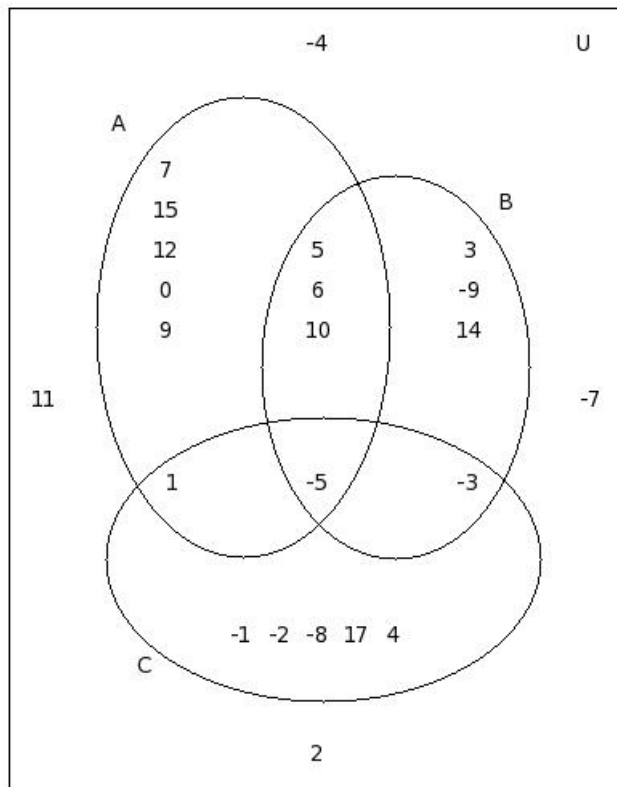
- (i) $\{6, -3, -5, -1, 13, 11, 7, -6, 5, -2, 0, 3\}$
 (ii) $\{6, -3, -5, -1, 13, 11, 7, -6, 5, -2, 0\}$
 (iii) $\{6, -3, -5, -1, 13, 11, 7, -6, 5, -2, 0, 16\}$
 (iv) $\{6, -3, -5, -1, 13, 11, 7, -6, 5, -2, 0, 3, 17\}$
 (v) $\{6, -3, -5, -1, 13, 7, -6, 5, -2, 0, 3, 17\}$
-

5. Find $B \cup C$



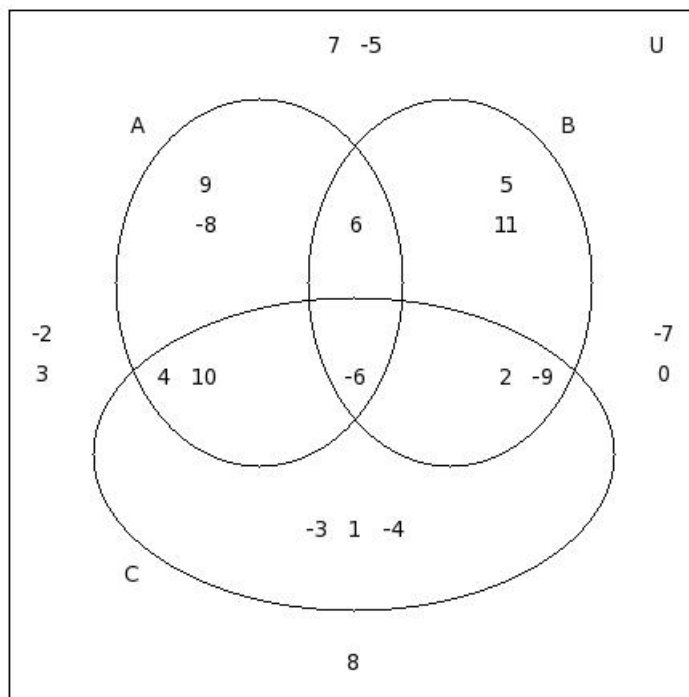
- (i) $\{1, -7, 14, -1, 3, 4, -2, -9, 9, 15, 7, -6, 12, 5\}$
 (ii) $\{1, -7, 14, -1, 3, 4, -2, -9, 9, 15, 7, -6, 12\}$
 (iii) $\{1, -7, 14, -1, 3, -2, -9, 9, 15, 7, -6, 12, 5\}$
 (iv) $\{1, -7, 14, -1, 3, 4, -2, -9, 9, 15, -6, 12, -5\}$
 (v) $\{-7, 14, -1, 3, 4, -2, -9, 9, 15, 7, -6, 12\}$

6. Find $C \cup A$



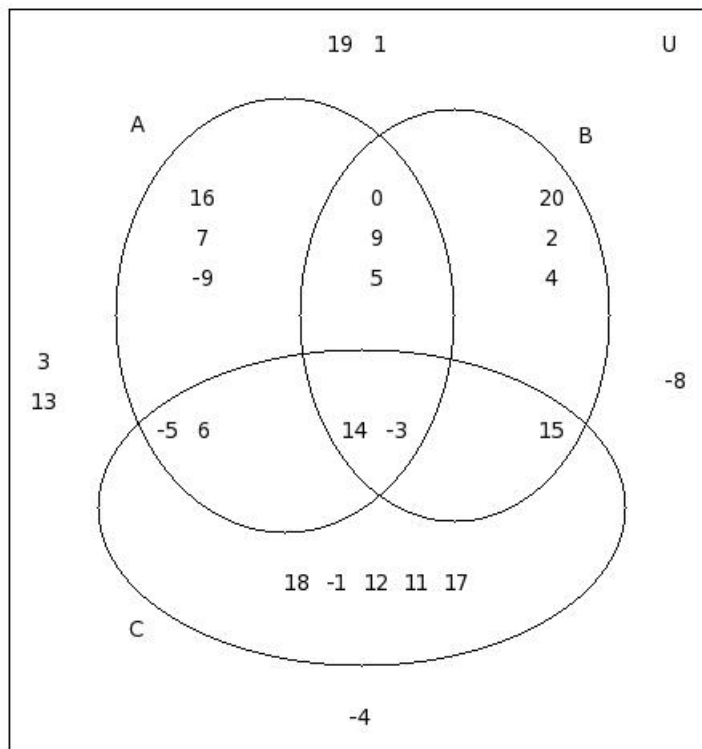
- (i) $\{-1, 10, -2, -8, 17, 7, 9, 5, -3, 1, 15, -5, 0, 6, 12, 4\}$
- (ii) $\{-1, 10, -2, -8, 17, 7, 9, 5, -3, 1, 15, -5, 0, 6, 12, 4, 11\}$
- (iii) $\{-1, 10, -2, -8, 17, 7, 9, 5, -3, 1, 15, -5, 6, 12, 4\}$
- (iv) $\{-1, 10, -2, -8, 7, 9, 5, -3, 1, 15, -5, 0, 6, 12, 4, 11\}$
- (v) $\{10, -2, -8, 17, 7, 9, 5, -3, 1, 15, -5, 0, 6, 12, 4, 2\}$

7. Find $A \cup B \cup C$



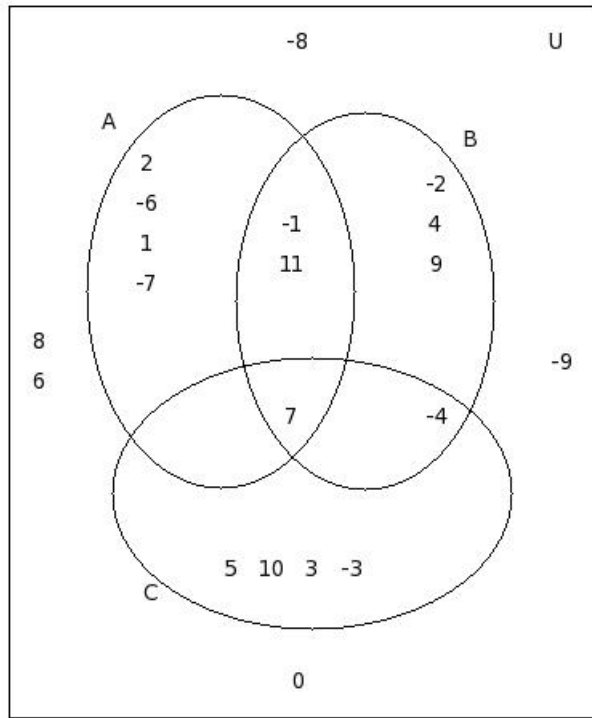
- (i) $\{-8, 11, -6, 5, 1, 2, -3, -9, 6, 4, 9, -4, 10\}$
 (ii) $\{-8, 11, -6, 1, 2, -3, -9, 6, 4, 9, -4, 10, 8\}$
 (iii) $\{-8, 11, -6, 5, 1, 2, -3, -9, 6, 4, -4, 10\}$
 (iv) $\{-8, 11, -6, 5, 1, -3, -9, 6, 4, 9, -4, 10, -7\}$
 (v) $\{-8, 11, -6, 5, 1, 2, -3, -9, 6, 4, 9, -4, 10, -7\}$

8. Find $(A \cup B) \cup C$



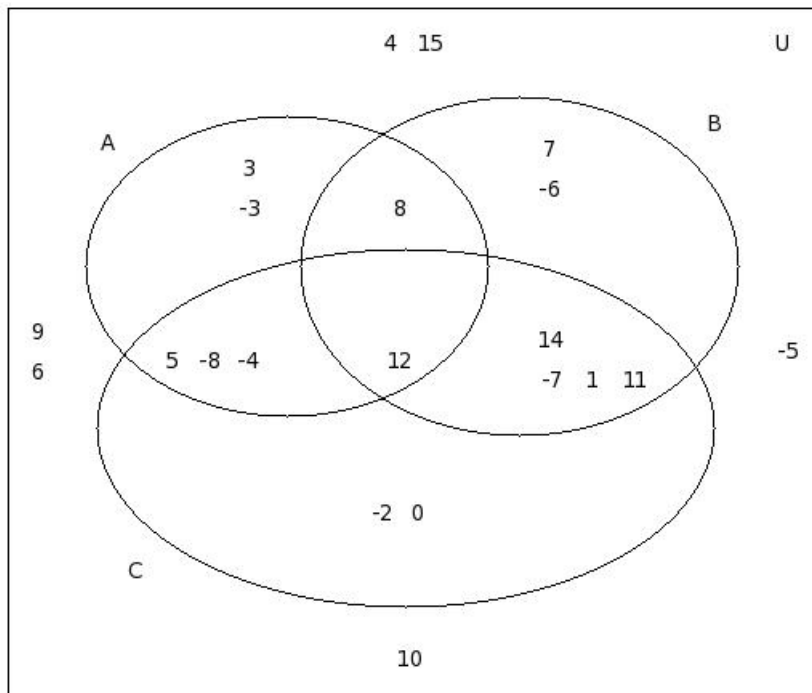
- (i) $\{5,16,14,2,18,4,7,0,6,11,20,-5,9,-3,-1,-9,12,15,17\}$
- (ii) $\{5,16,2,18,4,7,0,6,11,20,-5,9,-3,-1,-9,12,15,17,-4\}$
- (iii) $\{5,16,14,2,18,4,7,0,6,11,20,-5,9,-3,-1,-9,12,15,17,-8\}$
- (iv) $\{5,16,14,2,18,4,7,0,11,20,-5,9,-3,-1,-9,12,15,17\}$
- (v) $\{5,16,14,2,18,4,7,0,6,11,-5,9,-3,-1,-9,12,15,17,-8\}$

9. Find $A \cup (B \cup C)$



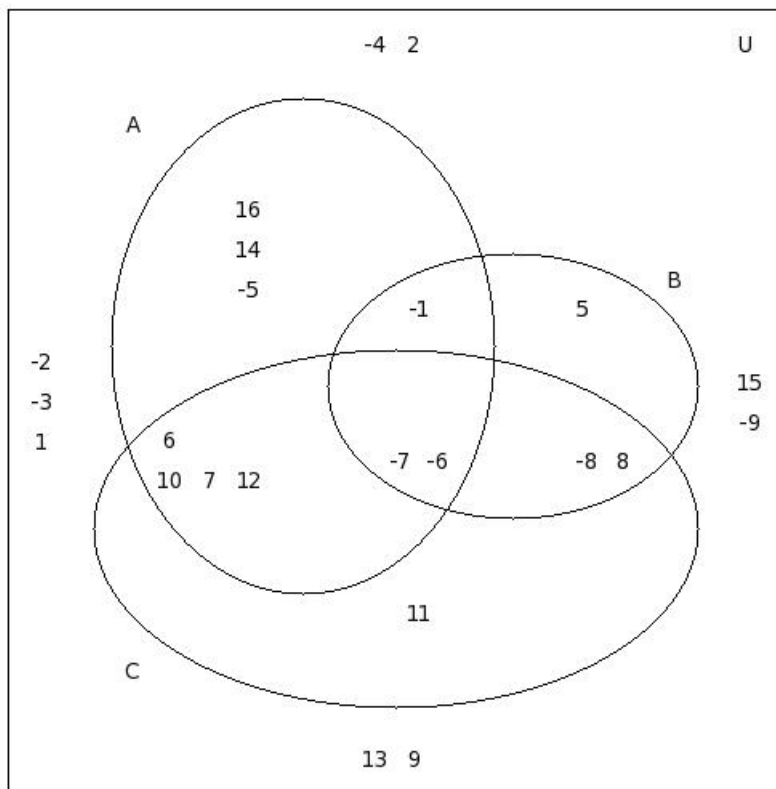
- (i) $\{-1,1,11,9,-6,7,2,10,-2,-3,4,-4,3,-7,0\}$
- (ii) $\{-1,1,11,9,-6,7,5,2,10,-2,-3,4,-4,3,8\}$
- (iii) $\{-1,1,11,9,-6,7,5,2,10,-2,-3,4,-4,3,-7\}$
- (iv) $\{1,11,9,-6,7,5,2,10,-2,-3,4,-4,3,-7\}$
- (v) $\{-1,1,11,9,-6,7,5,2,10,-2,-3,4,-4,3,-7,8\}$

10. Find $A \cap B$



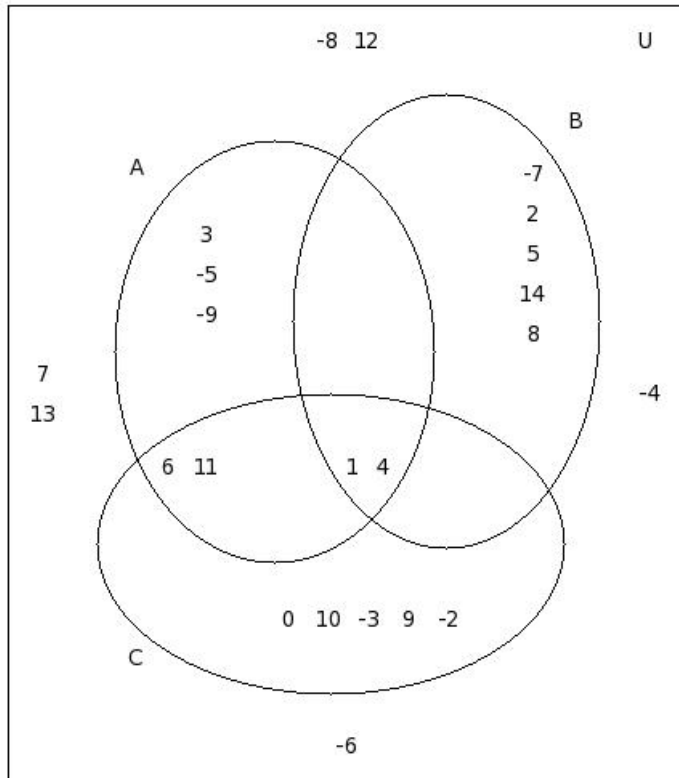
- (i) {8} (ii) {12,6} (iii) {12,8,6} (iv) {12,-5} (v) {12,8}

11. Find $B \cap C$



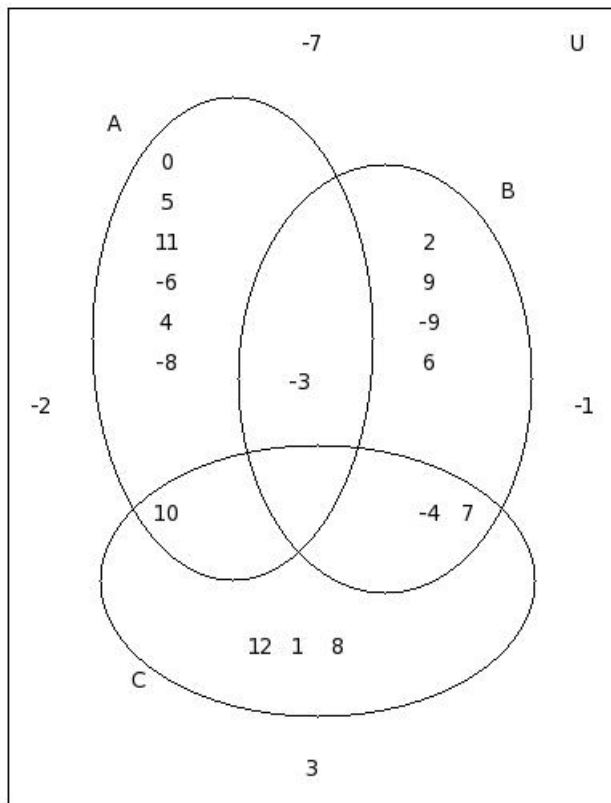
- (i) {-6,-7,8,14} (ii) {-8,-7,8,9} (iii) {-6,-8,-7}
 (iv) {-6,-8,-7,8,14} (v) {-6,-8,-7,8}

12. Find $C \cap A$



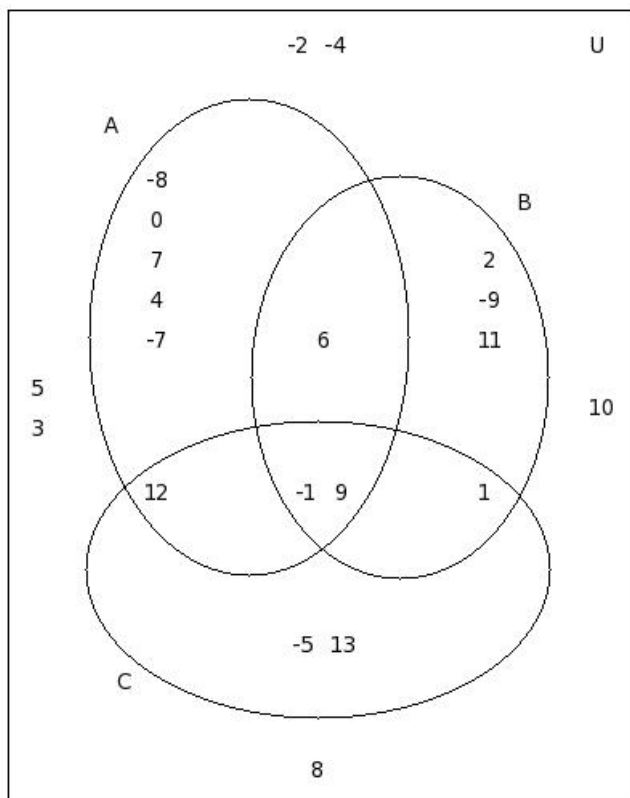
- (i) $\{4, 1, 11, 6\}$ (ii) $\{1, 11, 6, -2\}$ (iii) $\{1, 11, 6, 14\}$
 (iv) $\{4, 1, 11, 6, -2\}$ (v) $\{1, 11, 6\}$

13. Find $A \cap B \cap C$



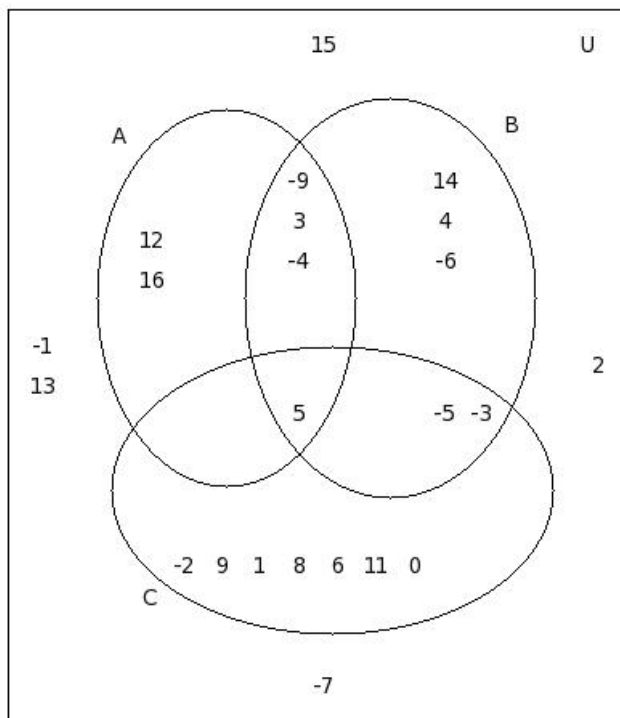
- (i) {0} (ii) {9} (iii) {}

14. Find $(A \cap B) \cap C$



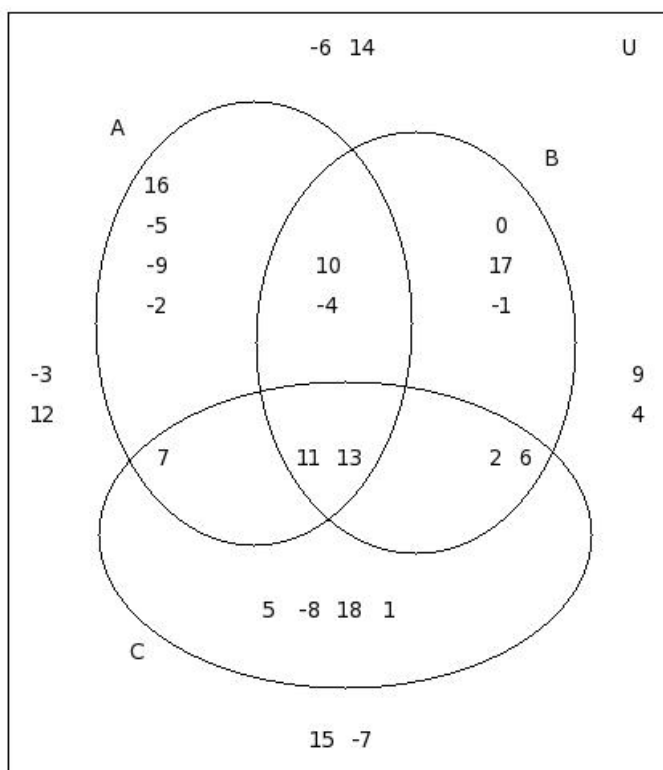
- (i) {-1, 9} (ii) {-1, 9, 8} (iii) {9} (iv) {-1, 2} (v) {-1, 8}

15. Find $A \cap (B \cap C)$



- (i) {13} (ii) {} (iii) {5,6} (iv) {5} (v) {6}

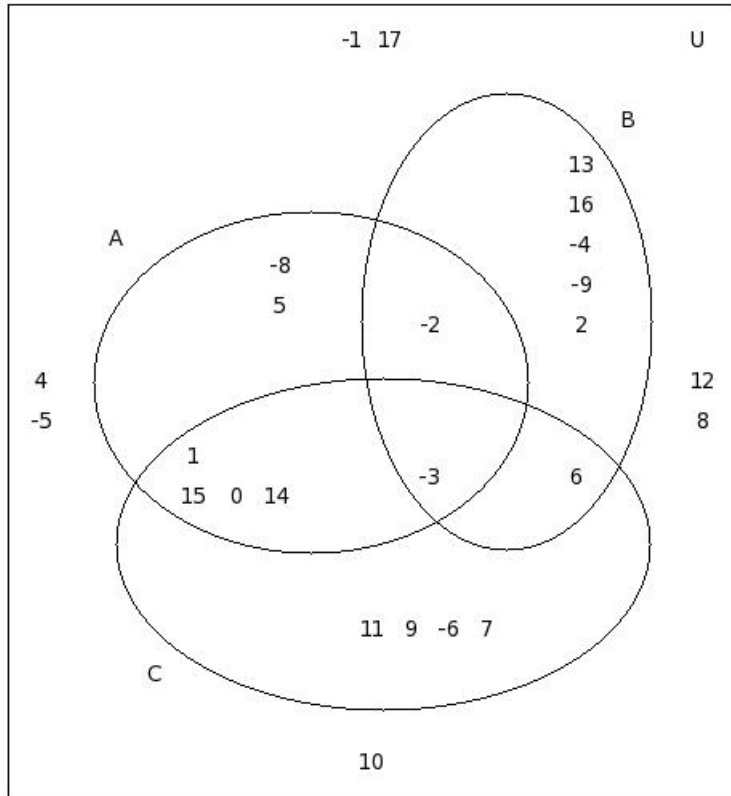
16. Find $A \cup (B \cap C)$



- (i) {-2,13,-4,10,11,6,-5,2,7,-9}
 (ii) {-2,13,-4,11,16,6,-5,2,7,-9,-1}

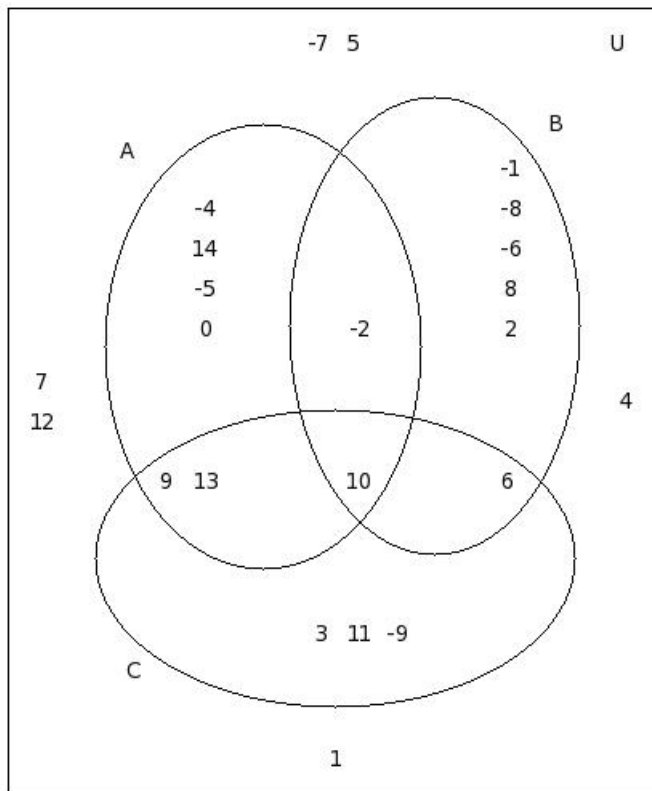
- (iii) $\{-2, 13, 10, 11, 16, 6, -5, 2, 7, -9, -8\}$
 (iv) $\{-2, 13, -4, 10, 11, 16, 6, -5, 2, 7, -9\}$
 (v) $\{-2, 13, -4, 10, 11, 16, 6, -5, 2, 7, -9, -1\}$

17. Find $B \cup (C \cap A)$



- (i) $\{2, 16, -4, 14, 0, 1, -3, -2, 13, 15, 6, 8\}$
 (ii) $\{2, 16, 14, 0, 1, -3, -2, -9, 13, 15, 6\}$
 (iii) $\{2, 16, -4, 14, 0, 1, -3, -2, -9, 13, 15, 6, 9\}$
 (iv) $\{16, -4, 14, 0, 1, -3, -2, -9, 13, 15, 6, 9\}$
 (v) $\{2, 16, -4, 14, 0, 1, -3, -2, -9, 13, 15, 6\}$

18. Find $C \cup (A \cap B)$

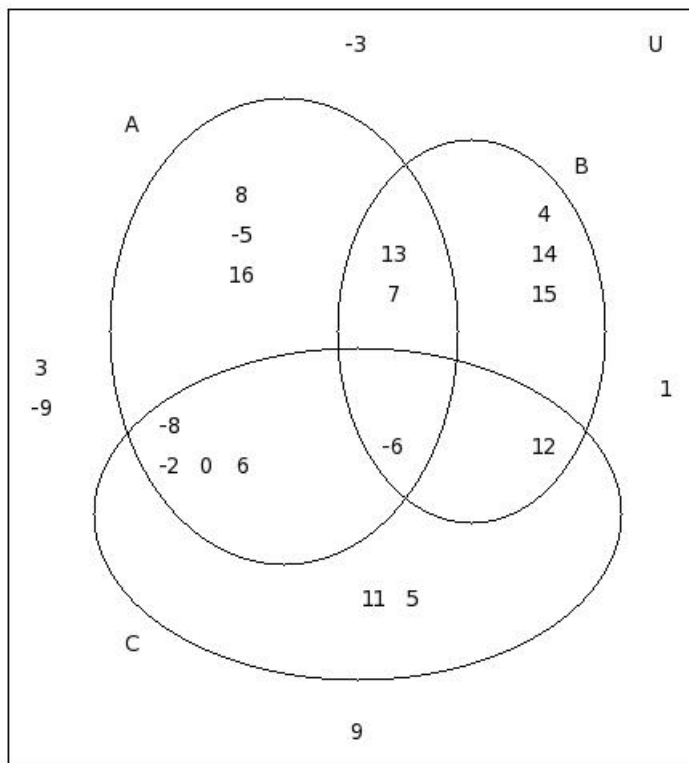


(i) $\{-9, 3, 13, 10, 9, 6, -2, 7\}$ (ii) $\{-9, 3, 13, 10, 9, 11, 6, -2\}$

(iii) $\{-9, 3, 13, 10, 9, 11, 6, -2, 1\}$ (iv) $\{-9, 3, 10, 9, 11, 6, -2\}$

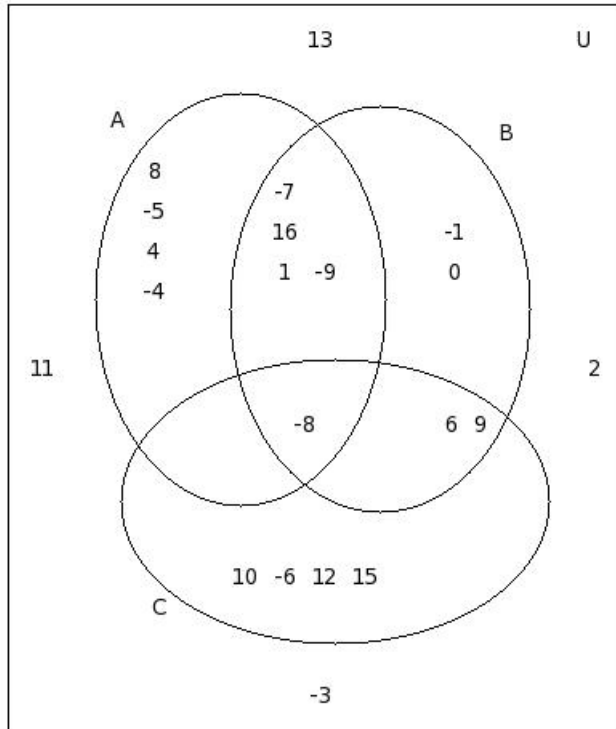
(v) $\{-9, 13, 10, 9, 11, 6, -2, 1\}$

19. Find $A \cap (B \cup C)$



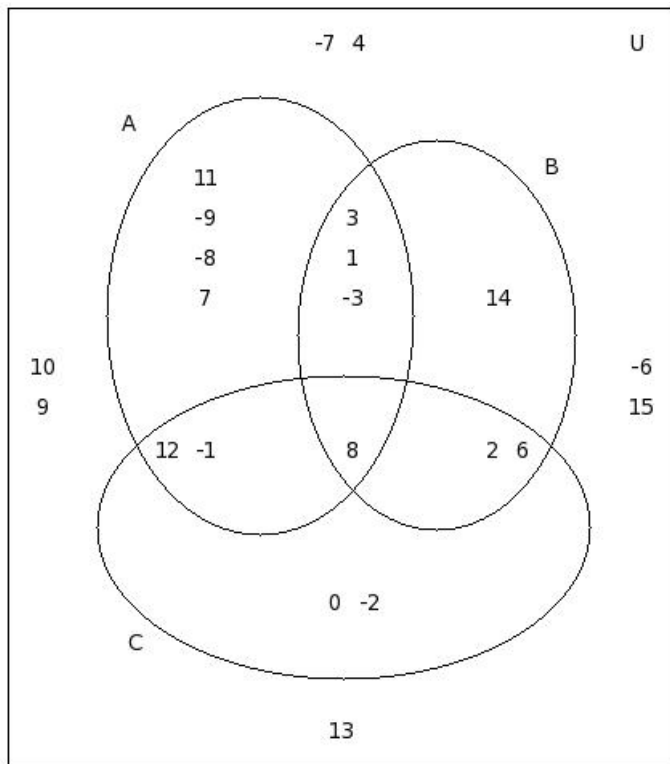
- (i) $\{13, -2, -6, 0, -8, 6\}$ (ii) $\{13, -2, -6, 0, -8, 7, 16\}$
 (iii) $\{13, -2, -6, 0, -8, 7, 6, 16\}$ (iv) $\{13, -2, -6, 0, -8, 7, 6\}$
 (v) $\{13, -2, 0, -8, 7, 6, 9\}$

20. Find $B \cap (C \cup A)$



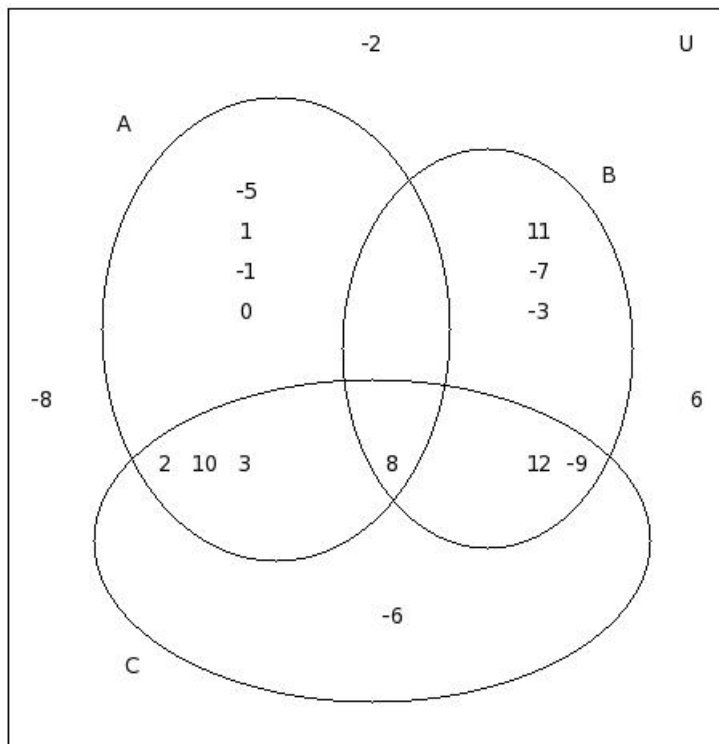
- (i) $\{9, -8, 16, 1, -7, 6, 10\}$ (ii) $\{-9, 9, 16, 1, -7, 6, 4\}$
 (iii) $\{-9, 9, -8, 16, -7, 6\}$ (iv) $\{-9, 9, -8, 16, 1, -7, 6\}$
 (v) $\{-9, 9, -8, 16, 1, -7, 6, 10\}$

21. Find $C \cap (A \cup B)$



- (i) $\{-1, 8, 2, 6, 7\}$ (ii) $\{-1, 8, 2, 12, 6\}$ (iii) $\{-1, 2, 12, 6\}$
 (iv) $\{8, 2, 12, 6, 14\}$ (v) $\{-1, 8, 2, 12, 6, 14\}$

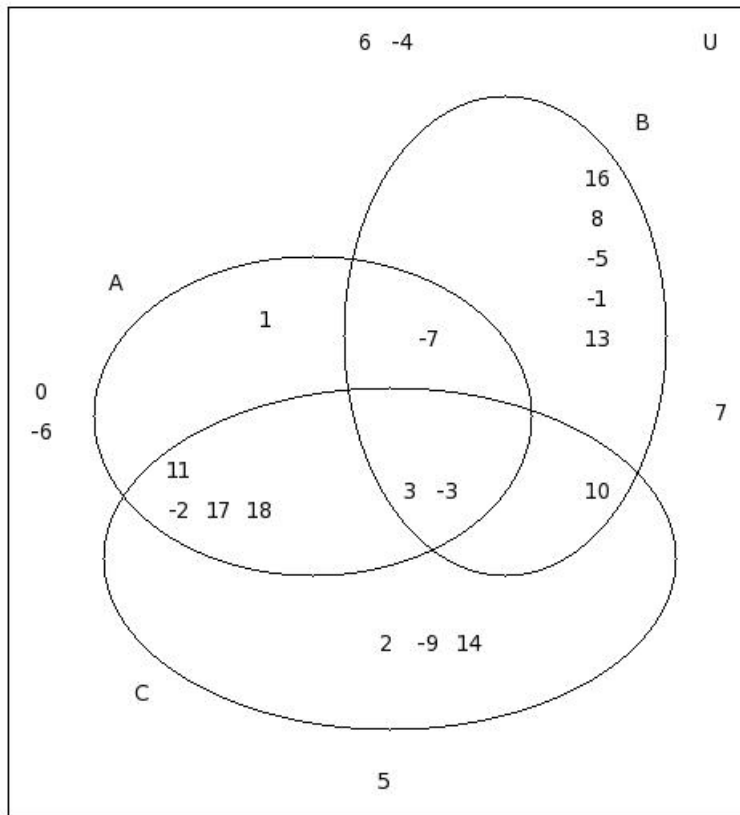
22. Find $(A \cup B) \cap (A \cup C)$



- (i) $\{-5, 2, 3, 10, 12, 1, 8, -1, -9, 0\}$ (ii) $\{-5, 2, 10, 12, 1, 8, -1, -9, 0\}$
 (iii) $\{-5, 2, 3, 10, 12, 1, 8, -1, -9, 0, -3\}$ (iv) $\{-5, 2, 3, 10, 12, 1, -1, -9, 0, -3\}$

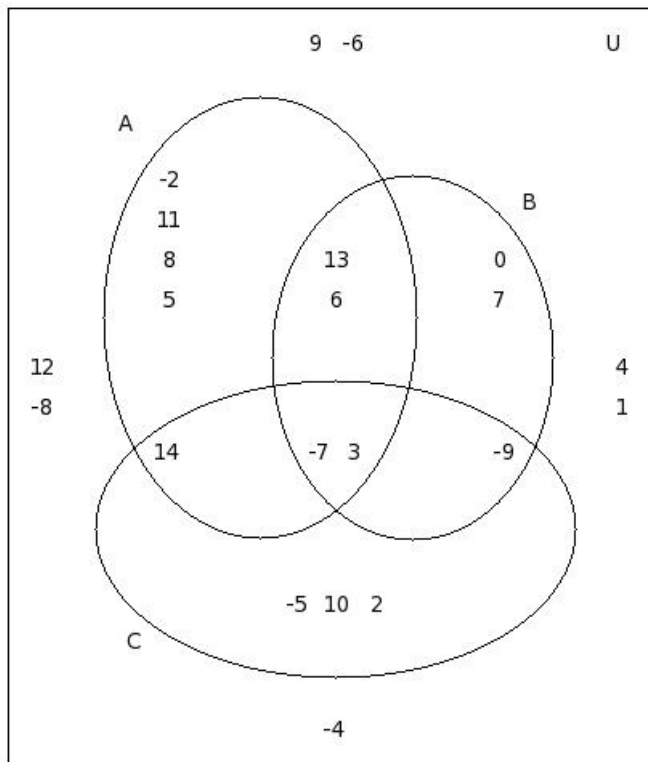
(v) $\{-5, 2, 3, 10, 12, 1, 8, -1, -9, -7\}$

23. Find $(B \cup C) \cap (B \cup A)$



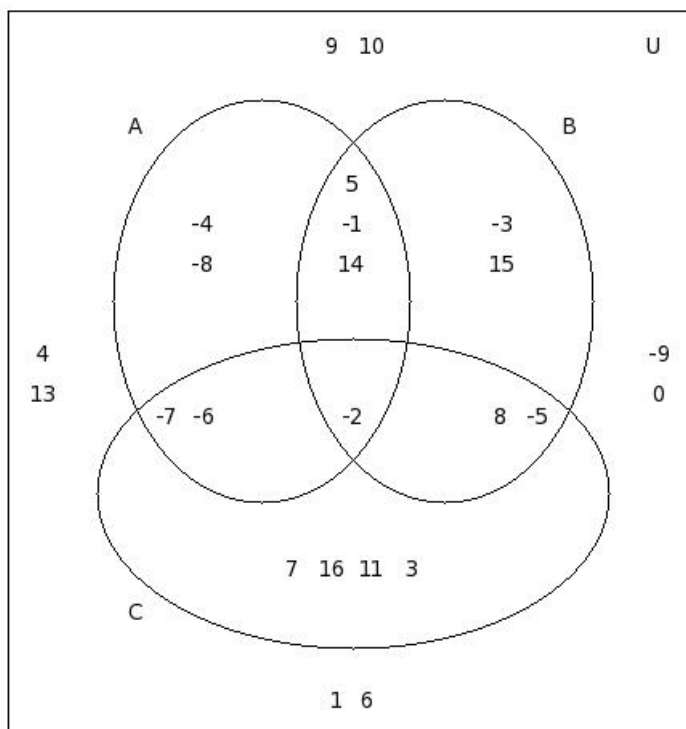
- (i) $\{-5, -3, 16, 18, -1, -2, 13, 3, 17, -7, 8, 10, 11, 0\}$
- (ii) $\{-5, -3, 16, 18, -1, -2, 13, 3, 17, -7, 8, 10, 11\}$
- (iii) $\{-5, -3, 16, 18, -2, 13, 3, 17, -7, 8, 10, 11, 0\}$
- (iv) $\{-5, -3, 16, 18, -2, 13, 3, 17, -7, 8, 10, 11\}$
- (v) $\{-5, -3, 16, -1, -2, 13, 3, 17, -7, 8, 10, 11, 14\}$

24. Find $(C \cup A) \cap (C \cup B)$



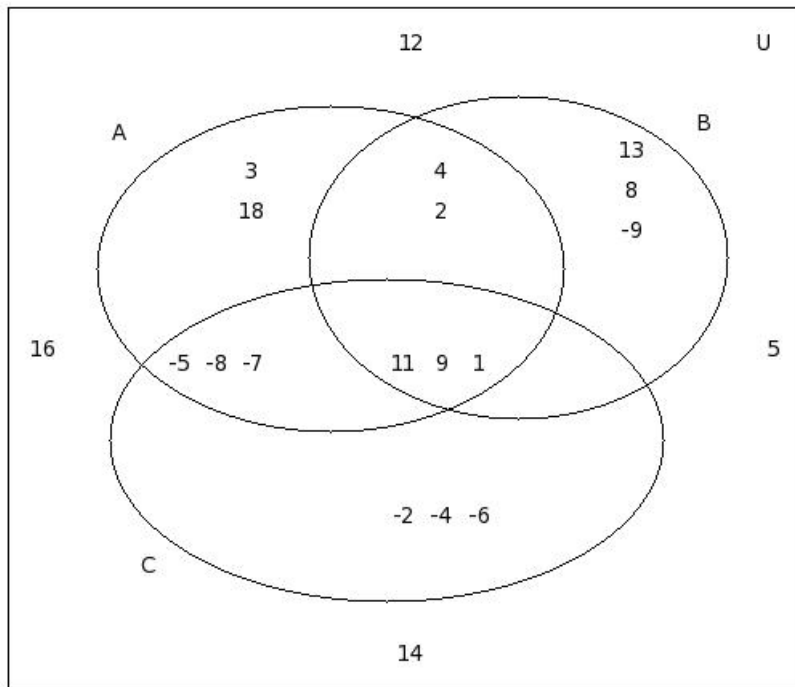
- (i) $\{13, -5, 10, 14, 6, -7, 2, -9, 9\}$ (ii) $\{-5, 3, 10, 14, 6, -7, 2, -9\}$
 (iii) $\{13, -5, 3, 10, 14, 6, -7, 2, -9\}$ (iv) $\{13, 3, 10, 14, 6, -7, 2, -9, -6\}$
 (v) $\{13, -5, 3, 10, 14, 6, -7, 2, -9, -6\}$

25. Find $(A \cap B) \cup (A \cap C)$



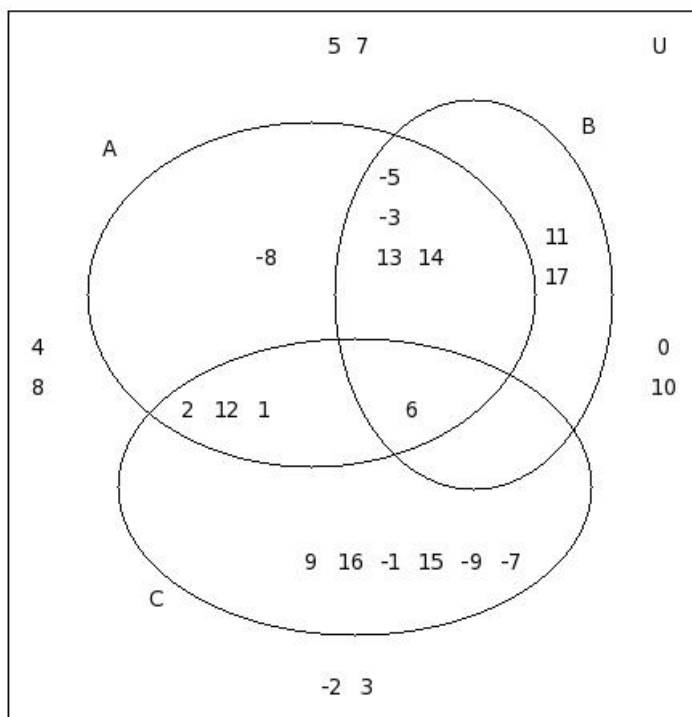
- (i) $\{5, 14, -2, -6, -1\}$ (ii) $\{-7, 5, 14, -2, -6, -1, 11\}$ (iii) $\{-7, 5, 14, -2, -6, 11\}$
 (iv) $\{-7, 5, 14, -2, -6, 7\}$ (v) $\{-7, 5, 14, -2, -6, -1\}$

26. Find $(B \cap C) \cup (B \cap A)$



- (i) $\{2, 1, 11, 9, 18\}$ (ii) $\{1, 11, 9, 4, -5\}$ (iii) $\{2, 1, 11, 9, 4\}$
 (iv) $\{2, 1, 11, 9, 4, 18\}$ (v) $\{2, 11, 9, 4\}$

27. Find $(C \cap A) \cup (C \cap B)$



- (i) $\{6,12,1,2\}$ (ii) $\{6,1,2,15\}$ (iii) $\{6,12,2,9\}$
 (iv) $\{6,1,2\}$ (v) $\{6,12,1,2,9\}$
-

If $\mu = \{13,5,1,-8,2,7,-1,11,6,16,-6,-2,-7,-5,15,0,8,9,-3,-4,-9,14\}$,

28. $A = \{13,5,1,-8,2,7,-1,11,6,16\}$, $B = \{-6,13,-2,-7,5,2\}$,

$C = \{-5,-2,1,15,5,7,0,16,-1\}$, find A

- (i) $\{5,7,13,11,2,16,-1,-8,6,1\}$ (ii) $\{5,7,13,11,2,-1,-8,6,1\}$
 (iii) $\{5,7,13,11,2,16,-1,-8,1\}$ (iv) $\{5,7,13,11,2,16,-1,-8,6,1,-3\}$
 (v) $\{5,7,13,11,2,-1,-8,6,1,-3\}$
-

If $\mu = \{9,-7,1,0,5,-5,-9,-4,12,2,13,-2,-8,-6,-3,7,11,6,3,14\}$,

29. $A = \{9,-7,1,0,5,-5,-9,-4,12\}$, $B = \{-7,2,1,13,0,9,-2,-8\}$,

$C = \{-9,-6,2,-3,0,7,11\}$, find B

- (i) $\{13,9,-8,-7,0,-2,1,2,11\}$ (ii) $\{13,9,-7,0,-2,1,2,-5\}$
 (iii) $\{13,-8,-7,0,-2,1,2\}$ (iv) $\{13,9,-8,-7,0,-2,1,2\}$
 (v) $\{13,-8,-7,0,-2,1,2,11\}$
-

If $\mu = \{14,6,-7,9,-9,8,-1,15,-3,-5,-4,0,-8,-6,-2,2,5,10,3,1,11\}$,

30. $A = \{14,6,-7,9,-9,8,-1,15,-3,-5\}$, $B = \{-7,-4,14,0,-8,-6\}$,

$C = \{-2,0,2,14,5,-5,9,-8\}$, find C

- (i) $\{14,-8,0,-2,-5,9,2\}$ (ii) $\{14,-8,0,5,-2,-5,9,2,-9\}$
 (iii) $\{14,0,5,-2,-5,9,2\}$ (iv) $\{14,-8,0,5,-2,-5,9,2\}$
 (v) $\{14,-8,0,-2,-5,9,2,-9\}$
-

If $\mu = \{12,7,-7,9,-1,-4,-5,8,10,16,-2,11,5,2,14,3,17,15,13,6,-3,4,-8,0,-6\}$,

31. $A = \{12,7,-7,9,-1,-4,-5,8,10,16\}$, $B = \{-2,-4,11,5,12,8,16,2,14\}$,

$C = \{3,17,-7,15,13,-4,8\}$, find $A \cup B$

- (i) $\{16,12,8,-5,10,9,-4,-7,-1,14,7,5,2,11,-8\}$
 (ii) $\{16,12,-2,8,-5,10,9,-4,-7,-1,14,7,5,2,11,-8\}$
 (iii) $\{16,12,-2,8,-5,10,9,-4,-7,-1,14,7,5,2,11\}$
 (iv) $\{16,12,-2,8,10,9,-4,-7,-1,14,7,5,2,11\}$
 (v) $\{16,12,8,-5,10,9,-4,-7,-1,14,7,5,2,11\}$
-

If $\mu = \{-4,-7,0,13,-2,5,9,8,3,-8,2,-3,11,10,4,1,6,-1,-6,7,-5,-9\}$,

32. $A = \{-4,-7,0,13,-2,5,9,8,3\}$, $B = \{-8,2,-3,0,11,-7,10\}$,

$C = \{0,-8,10,13,4,-2\}$, find $B \cup C$

- (i) $\{-2, 0, -7, 2, -3, 13, 4, 10, 11, -8\}$ (ii) $\{-2, 0, -7, 2, -3, 13, 4, 11, -8\}$
 (iii) $\{-2, -7, 2, -3, 13, 4, 10, 11, -8\}$ (iv) $\{-2, 0, -7, 2, -3, 13, 4, 10, 11, -8, 3\}$
 (v) $\{-2, 0, -7, 2, -3, 13, 4, 11, -8, 3\}$
-

If $\mu = \{11, 15, 1, -5, -8, 8, 10, 7, 2, 14, -4, 5, -9, -2, -1, -6, 9, 4, 6, 0, -7, 13\}$,

33. $A = \{11, 15, 1, -5, -8, 8\}$, $B = \{10, 7, 2, 14, -4, -8, 11, 5, -9, -2\}$,

$C = \{8, 2, -1, 5, -4, 10, 11, 15\}$, find $C \cup A$

- (i) $\{1, 10, -5, -1, 5, 11, -8, -4, 2, 15, -2\}$
 (ii) $\{1, 10, -5, -1, 5, 11, -8, -4, 2, 15\}$
 (iii) $\{1, 10, -5, -1, 5, 11, -8, 8, -4, 2, 15, -2\}$
 (iv) $\{1, 10, -5, -1, 5, -8, 8, -4, 2, 15\}$
 (v) $\{1, 10, -5, -1, 5, 11, -8, 8, -4, 2, 15\}$
-

If $\mu = \{-4, 2, 17, 11, 5, 1, 15, 0, 14, -8, 16, -6, -2, -3, 9, 12, 7, 13, 18, 6, 8, 3, 19, 4, -7, -1\}$,

34. $A = \{-4, 2, 17, 11, 5, 1, 15, 0, 14\}$, $B = \{14, -8, 16, -6, 17, 15, -2, -3, 9\}$,

$C = \{12, 0, 7, 13, 16, -3, 18, 6, 17, 15\}$, find $A \cup B \cup C$

- (i) $\{-4, 7, 6, 17, 5, 16, -2, 0, -6, -8, 1, 14, 9, -3, 18, 2, 15, 12, 11, 13\}$
 (ii) $\{-4, 7, 6, 17, 5, 16, -2, 0, -6, -8, 1, 14, -3, 18, 2, 15, 12, 11, 13\}$
 (iii) $\{-4, 7, 6, 17, 5, 16, -2, 0, -6, -8, 1, 14, 9, -3, 18, 2, 15, 12, 11, 13, 8\}$
 (iv) $\{7, 6, 17, 5, 16, -2, 0, -6, -8, 1, 14, 9, -3, 18, 2, 15, 12, 11, 13\}$
 (v) $\{-4, 7, 6, 17, 5, 16, -2, 0, -6, -8, 1, 14, -3, 18, 2, 15, 12, 11, 13, 8\}$
-

If $\mu = \{12, -3, 1, -8, -4, 0, 10, 9, 3, 5, 4, 6, -2, 11, -9, 2, 14, -1, 8\}$,

35. $A = \{12, -3, 1, -8, -4, 0\}$, $B = \{10, 9, 3, 5, 0, 4, 6, -8, -2, 11\}$,

$C = \{0, 3, -9, 6, -8, 2, 14\}$, find $(A \cup B) \cup C$

- (i) $\{3, 4, 0, -8, -9, 1, 5, -4, 10, 11, -3, 2, 9, 14, -2, 6, 12, -1\}$
 (ii) $\{3, 4, 0, -8, -9, 1, 5, -4, 10, 11, -3, 2, 9, 14, -2, 6\}$
 (iii) $\{3, 4, 0, -8, -9, 1, 5, -4, 10, 11, -3, 2, 9, 14, -2, 6, 12\}$
 (iv) $\{3, 4, 0, -8, -9, 1, -4, 10, 11, -3, 2, 9, 14, -2, 6, 12\}$
 (v) $\{3, 4, 0, -8, -9, 1, 5, -4, 10, 11, -3, 2, 9, 14, -2, 6, -1\}$
-

If $\mu = \{2, 7, -5, 12, 16, 9, 5, 14, 6, 13, 1, -7, -6, 11, 4, 3, 0, -3, 15, 8, -1, -9, -2\}$,

36. $A = \{2, 7, -5, 12, 16, 9, 5, 14, 6, 13\}$, $B = \{6, 1, -7, -6, 11, 4\}$,

$C = \{9, 7, 3, 6, -7, 0, 2, -3, 15\}$, find $A \cup (B \cup C)$

- (i) $\{-7, 16, -5, 6, 3, 13, 14, 5, 9, 2, 7, 1, -3, 4, 11, 0, 12, 15\}$
 (ii) $\{-7, -5, 6, 3, 13, 14, 5, 9, 2, 7, 1, -6, -3, 4, 11, 0, 12, 15, 8\}$

(iii) $\{-7, 16, -5, 6, 3, 13, 14, 5, 9, 2, 7, 1, -6, -3, 4, 11, 0, 12, 15, 8\}$

(iv) $\{-7, -5, 6, 3, 13, 14, 5, 9, 2, 7, 1, -6, -3, 4, 11, 0, 12, 15\}$

(v) $\{-7, 16, -5, 6, 3, 13, 14, 5, 9, 2, 7, 1, -6, -3, 4, 11, 0, 12, 15\}$

If $\mu = \{-1, 10, 11, 14, -9, -6, 7, 12, -4, -3, 8, -5, 9, -8, 0, 3, 1, 13, 2, -2, -7, 5\}$,

37. $A = \{-1, 10, 11, 14, -9, -6\}$, $B = \{7, 12, 11, -4, -3, 8, -6\}$,

$C = \{-5, 9, 7, -9, -8, 10, 0, 3, 1, 13\}$, find $A \cap B$

(i) $\{11\}$ (ii) $\{11, 7\}$ (iii) $\{-6\}$ (iv) $\{11, -6\}$ (v) $\{11, -6, 7\}$

If $\mu = \{9, -6, 4, 12, 2, -9, 6, 14, 7, -8, -4, 11, 5, -1, 10, 1, -3, 8, -7, -2\}$,

38. $A = \{9, -6, 4, 12, 2, -9, 6, 14, 7\}$, $B = \{-8, -6, -4, 11, 6, 4\}$,

$C = \{5, 9, -1, -9, 10, -6, -8, 11\}$, find $B \cap C$

(i) $\{11, -8\}$ (ii) $\{11, -6, -8\}$ (iii) $\{11, -8, -2\}$ (iv) $\{11, -6\}$ (v) $\{11, -6, -8, -2\}$

If $\mu = \{-8, 3, -1, -4, 1, 7, 9, -6, 13, 12, -9, 8, 4, -3, 2, 10, -5, -2, -7, 5\}$,

39. $A = \{-8, 3, -1, -4, 1, 7\}$, $B = \{9, -6, -1, 13, 1, -8, 12, -9\}$,

$C = \{13, 3, 1, 8, 4, -3, -4, 2\}$, find $C \cap A$

(i) $\{1, -4\}$ (ii) $\{3, 1, -4\}$ (iii) $\{1, -4, 7\}$ (iv) $\{1, -4, 12\}$ (v) $\{3, 1, -4, 7\}$

If $\mu = \{-5, 6, -8, 11, -7, -9, -3, 5, 10, 15, -1, -2, 13, 7, -4, 16, 17, 3, 14, 0, 1, -6, 18, 2\}$,

40. $A = \{-5, 6, -8, 11, -7, -9, -3, 5, 10, 15\}$, $B = \{-1, -2, 13, 7, 10, 11, -3, -4, -5\}$,

$C = \{-2, -4, 16, 11, 10, 13, 17, 3\}$, find $A \cap B \cap C$

(i) $\{11\}$ (ii) $\{10, -4\}$ (iii) $\{10, 11, -1\}$ (iv) $\{10, 11\}$ (v) $\{11, -1\}$

If $\mu = \{9, 5, -1, -7, 11, -3, 10, 13, -5, -6, -4, -9, -8, 12, 4, 2, 1, 3, 6, 8, 7\}$,

41. $A = \{9, 5, -1, -7, 11, -3, 10\}$, $B = \{13, -5, -6, -4, 9, -9, -7, 10\}$,

$C = \{5, -3, -1, -8, -7, 12, 10\}$, find $(A \cap B) \cap C$

(i) $\{-7, 13\}$ (ii) $\{10, -7\}$ (iii) $\{10, -7, -5\}$ (iv) $\{-7, -5\}$ (v) $\{-7\}$

If $\mu = \{14, -7, -9, -6, 3, 9, 1, 12, -2, -4, 5, 15, 6, 13, 4, 11, 0, 7, -1, -5, -8, 10\}$,

42. $A = \{14, -7, -9, -6, 3, 9, 1, 12, -2\}$, $B = \{-4, 5, 15, -6, 6, 13, -2\}$,

$C = \{4, 12, 11, -2, 3, -7, 14, 0\}$, find $A \cap (B \cap C)$

(i) $\{-1\}$ (ii) $\{\}$ (iii) $\{11\}$ (iv) $\{-2, -1\}$ (v) $\{-2\}$

If $\mu = \{7, -5, 15, 1, -9, -3, 0, 2, 9, 3, 14, -7, -8, 11, 10, 17, -2, 12, 16, -6, -1, 6, 5\}$,

43. $A = \{7, -5, 15, 1, -9, -3, 0, 2, 9, 3\}$, $B = \{-3, 15, 14, -7, -8, 11, 10, 17, -2\}$,

$C = \{12, -8, -2, 16, 1, 9, 0\}$, find $A \cup (B \cap C)$

(i) $\{15, 7, -9, -5, 0, 3, -3, 1, 2, -8, 9\}$

(ii) $\{15, 7, -9, -5, 0, -2, 3, -3, 1, 2, -8, 9\}$

(iii) $\{15, 7, -9, 0, -2, 3, -3, 1, 2, -8, 9\}$

(iv) $\{15, 7, -9, -5, 0, 3, -3, 1, 2, -8, 9, -7\}$

(v) $\{15, 7, -9, -5, 0, -2, 3, -3, 1, 2, -8, 9, -7\}$

If $\mu = \{-1, 11, -4, 2, 10, -7, 9, -5, 3, 14, -3, -8, 6, 5, -6, 0, 1, 12, 13, 8, -9\}$,

44. $A = \{-1, 11, -4, 2, 10, -7\}$, $B = \{9, -5, 3, -4, 14, -3, -8\}$,

$C = \{6, 2, -3, -1, 5, 10, -5, -6, 0, 9\}$, find $B \cup (C \cap A)$

(i) $\{9, -8, 14, 3, -5, -3, -4, -1, 10\}$ (ii) $\{2, 9, -8, 14, 3, -5, -4, -1, 10, 12\}$

(iii) $\{2, 9, -8, 14, 3, -5, -3, -4, -1, 10\}$ (iv) $\{2, 9, -8, 14, 3, -5, -3, -4, -1, 10, 12\}$

(v) $\{2, 9, -8, 14, 3, -5, -4, -1, 10\}$

If $\mu = \{0, 3, 11, -4, 7, 16, 9, -2, 8, 17, -8, 13, 6, 15, -6, -7, 5, 1, 4, -5, -9, 14\}$,

45. $A = \{0, 3, 11, -4, 7, 16, 9, -2, 8\}$, $B = \{9, 8, 17, -8, 3, 13, -4, 0\}$,

$C = \{6, 3, 7, -2, 15, -6, -7, 5, 1\}$, find $C \cup (A \cap B)$

(i) $\{1, 9, 7, 8, 5, 0, -2, 6, 15, 3, -7, -6, -4, 17\}$

(ii) $\{1, 9, 8, 5, 0, -2, 6, 15, 3, -7, -6, -4\}$

(iii) $\{1, 9, 7, 8, 5, 0, -2, 6, 15, 3, -7, -4\}$

(iv) $\{1, 9, 7, 8, 5, 0, -2, 6, 15, 3, -7, -6, -4\}$

(v) $\{1, 9, 8, 5, 0, -2, 6, 15, 3, -7, -6, -4, 17\}$

If $\mu = \{6, 4, 10, 8, -7, -1, -6, 9, 2, 7, 3, -4, 0, 5, -8, 11, -9, -3, 1\}$,

46. $A = \{6, 4, 10, 8, -7, -1\}$, $B = \{-1, -6, 9, 2, 7, 3, -4\}$,

$C = \{0, 5, -1, 9, -4, -7, -6\}$, find $A \cap (B \cup C)$

(i) $\{-7, 9\}$ (ii) $\{-7\}$ (iii) $\{-1, -7, 9\}$ (iv) $\{-1, -7\}$ (v) $\{-1\}$

If $\mu = \{-1, 8, 10, -3, 5, -6, 0, -7, 13, 4, 2, 11, 3, -4, 6, 14, -5, 1, 9, -9, -2, 15, 7, -8\}$,

47. $A = \{-1, 8, 10, -3, 5, -6, 0\}$, $B = \{-7, 13, 8, 4, 2, 11, 3, -6\}$,

$C = \{0, 3, 4, -4, 6, -1, 14, -5, 2\}$, find $B \cap (C \cup A)$

(i) $\{8, 4, 2, 3\}$ (ii) $\{8, 4, -6, 2, -9\}$ (iii) $\{8, 4, -6, 2\}$

(iv) $\{8, 4, -6, 2, 3\}$ (v) $\{8, 4, -6, 2, 3, -9\}$

If $\mu = \{4, -3, 9, -8, 1, 12, 2, 11, -9, -5, 6, 0, 3, 5, -2, 13, 8, -6, -1\}$,

48. $A = \{4, -3, 9, -8, 1, 12, 2, 11, -9\}$, $B = \{-5, 9, 6, 0, 3, 5\}$,

$C = \{2, 4, -2, 0, -5, -3, 13\}$, find $C \cap (A \cup B)$

- (i) $\{0, -3, 2, 4\}$ (ii) $\{0, -3, 2, -5, 4\}$ (iii) $\{0, -3, 2, 4, -6\}$
 (iv) $\{0, -3, 2, -5, 4, 3\}$ (v) $\{0, -3, 2, 4, 3\}$
-

If $\mu = \{-9, 14, -4, -5, 3, 11, -3, -1, -7, -6, 12, 2, 1, 6, 13, 0, 5, 15, 9, 10, -8, 8, -2\}$,

49. $A = \{-9, 14, -4, -5, 3, 11, -3\}$, $B = \{-1, -7, -6, -3, 12, 2, 1, 3, 6\}$,

$C = \{13, 6, -3, -9, -1, 12, 0, 5\}$, find $(A \cup B) \cap (A \cup C)$

- (i) $\{3, -1, -3, -4, 12, 11, 14, -5, 6\}$ (ii) $\{3, -1, -3, -4, 12, 11, 14, -5, 6, -6\}$
 (iii) $\{3, -1, -3, -9, -4, 12, 14, -5, 6\}$ (iv) $\{3, -1, -3, -9, -4, 12, 11, 14, -5, 6, -6\}$
 (v) $\{3, -1, -3, -9, -4, 12, 11, 14, -5, 6\}$
-

If $\mu = \{-9, 8, 4, -5, -7, 9, 11, 13, -3, 3, 5, 10, 0, 1, -6, -1, -4, 2\}$,

50. $A = \{-9, 8, 4, -5, -7, 9, 11, 13, -3\}$, $B = \{3, 5, 10, 0, 9, 1, -5, -3\}$,

$C = \{11, 0, 8, -7, -3, -5\}$, find $(B \cup C) \cap (B \cup A)$

- (i) $\{0, 1, -5, -3, 9, -7, 10, 8, 11, 3, 2\}$
 (ii) $\{0, 1, -5, -3, 9, -7, 10, 8, 11, 3\}$
 (iii) $\{0, 5, 1, -5, -3, 9, -7, 10, 8, 11, 3\}$
 (iv) $\{0, 5, 1, -5, -3, 9, -7, 10, 8, 11, 3, 2\}$
 (v) $\{0, 5, 1, -5, -3, 9, -7, 10, 11, 3\}$
-

If $\mu = \{-5, 6, 3, 0, -4, 1, 16, -8, 13, 15, -9, 14, 2, -2, -6, -1, -7, 5, 7, 10, -3, 12, 11, 4\}$,

51. $A = \{-5, 6, 3, 0, -4, 1, 16, -8\}$, $B = \{13, 15, -9, 14, 0, -5, 3, 2, -2\}$,

$C = \{-2, 14, -6, -1, 0, 15, -7, 13\}$, find $(C \cup A) \cap (C \cup B)$

- (i) $\{15, -7, -2, -1, 3, -5, 13, 0, -6, -9\}$ (ii) $\{15, -7, -2, -1, 3, -5, 13, 14, 0, -6\}$
 (iii) $\{15, -7, -2, -1, 3, -5, 13, 0, -6\}$ (iv) $\{15, -7, -2, -1, -5, 13, 14, 0, -6\}$
 (v) $\{15, -7, -2, -1, 3, -5, 13, 14, 0, -6, -9\}$
-

If $\mu = \{5, 13, 2, -7, 10, 16, -4, 8, 17, 11, 12, 4, 9, -1, 0, 19, -2, -9, 14, 18, 15\}$,

52. $A = \{5, 13, 2, -7, 10, 16, -4, 8, 17\}$, $B = \{11, 17, 12, 13, 4, 8, 2, 5, 9, -1\}$,

$C = \{-1, 0, 19, -2, 8, 17, -9, 9, 14, 2\}$, find $(A \cap B) \cup (A \cap C)$

- (i) $\{8, 2, 13, 17, 5\}$ (ii) $\{2, 13, 17, 5\}$ (iii) $\{2, 13, 17, 5, 4\}$
 (iv) $\{8, 2, 13, 17, 5, 4\}$ (v) $\{8, 2, 13, 17\}$
-

If $\mu = \{10, 2, 13, -8, 8, -4, -7, 1, 12, -6, 5, 3, -1, 9, 0, -5, 11, -2, 7, 4\}$,

53. $A = \{10, 2, 13, -8, 8, -4, -7, 1, 12, -6\}$, $B = \{12, -8, 2, 5, -7, -4\}$,

$C = \{3, -1, 5, -7, 9, 12\}$, find $(B \cap C) \cup (B \cap A)$

- (i) $\{-7, 12, -4, -8, 2\}$ (ii) $\{-7, -4, -8, 2, 5, 4\}$ (iii) $\{-7, -4, -8, 2, 5\}$
(iv) $\{-7, 12, -4, -8, 2, 5, 4\}$ (v) $\{-7, 12, -4, -8, 2, 5\}$
-

If $\mu = \{-6, 10, -9, -3, -7, 6, 11, 3, -5, 12, -4, 7, -8, 2, 8, 9, -1, 1, 0, 5, -2\}$,

54. $A = \{-6, 10, -9, -3, -7, 6, 11\}$, $B = \{-3, 3, -5, 12, -4, -6, 11\}$,

$C = \{-4, 3, 7, -8, 6, -7, 2\}$, find $(C \cap A) \cup (C \cap B)$

- (i) $\{3, -7, -4, 6\}$ (ii) $\{3, -7, -4, 6, 0\}$ (iii) $\{-7, -4, 6\}$
(iv) $\{3, -7, -4\}$ (v) $\{3, -7, -4, 0\}$
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Assignment Key

- 1) (iii)
- 2) (iv)
- 3) (iii)
- 4) (i)
- 5) (ii)
- 6) (i)
- 7) (i)
- 8) (i)
- 9) (iii)
- 10) (v)
- 11) (v)
- 12) (i)
- 13) (iii)
- 14) (i)
- 15) (iv)
- 16) (iv)
- 17) (v)
- 18) (ii)
- 19) (iv)
- 20) (iv)
- 21) (ii)
- 22) (i)
- 23) (ii)
- 24) (iii)
- 25) (v)
- 26) (iii)
- 27) (i)
- 28) (i)
- 29) (iv)
- 30) (iv)
- 31) (iii)
- 32) (i)
- 33) (v)
- 34) (i)
- 35) (iii)
- 36) (v)
- 37) (iv)
- 38) (ii)
- 39) (ii)

- 40) (iv)
- 41) (ii)
- 42) (v)
- 43) (ii)
- 44) (iii)
- 45) (iv)
- 46) (iv)
- 47) (iv)
- 48) (ii)
- 49) (v)
- 50) (iii)
- 51) (ii)
- 52) (i)
- 53) (v)
- 54) (i)