EduSahara™ Assignment

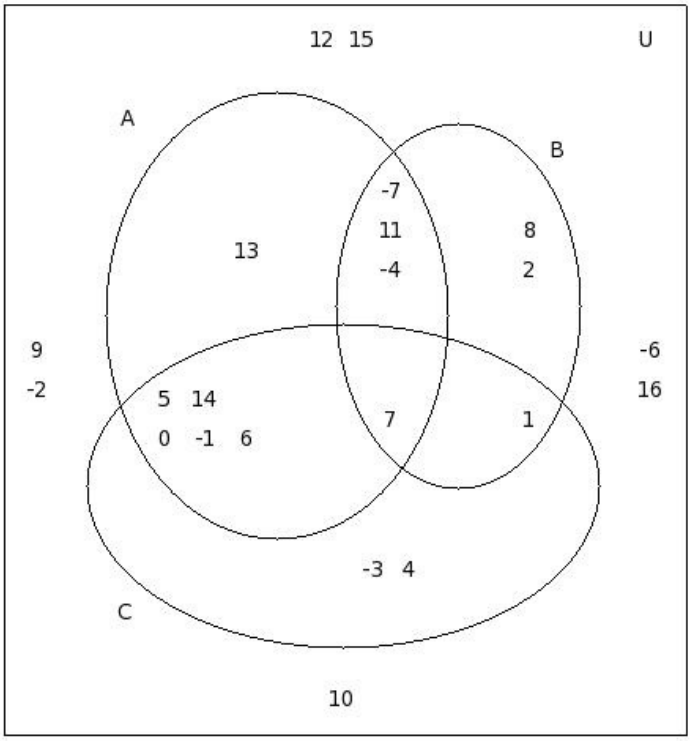
Name : Set Complement Problems

Chapter : Sets

Grade : ICSE Grade VIII

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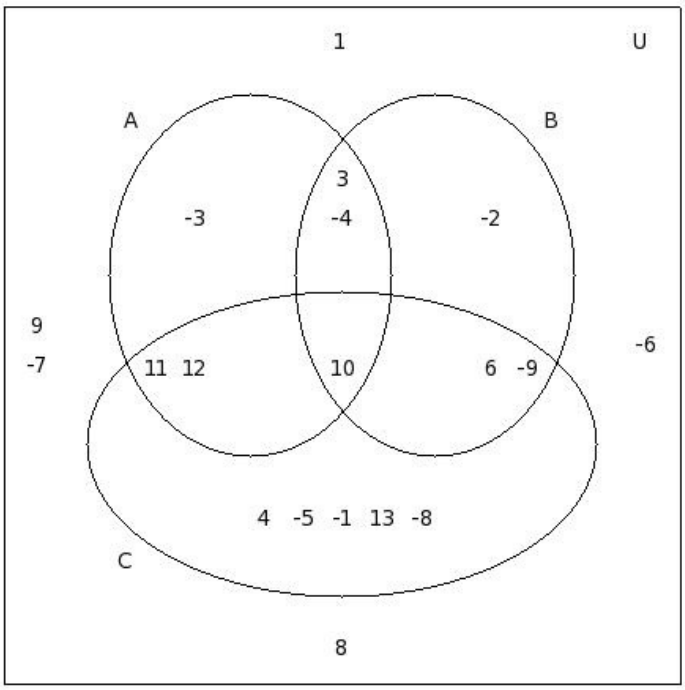
1. Find (B ∪ C)'



(i) {13,-2,9,15,-6,12,16,8} (ii) {13,-2,9,10,-6,12,16,0} (iii) {13,-2,9,10,15,-6,12,16}

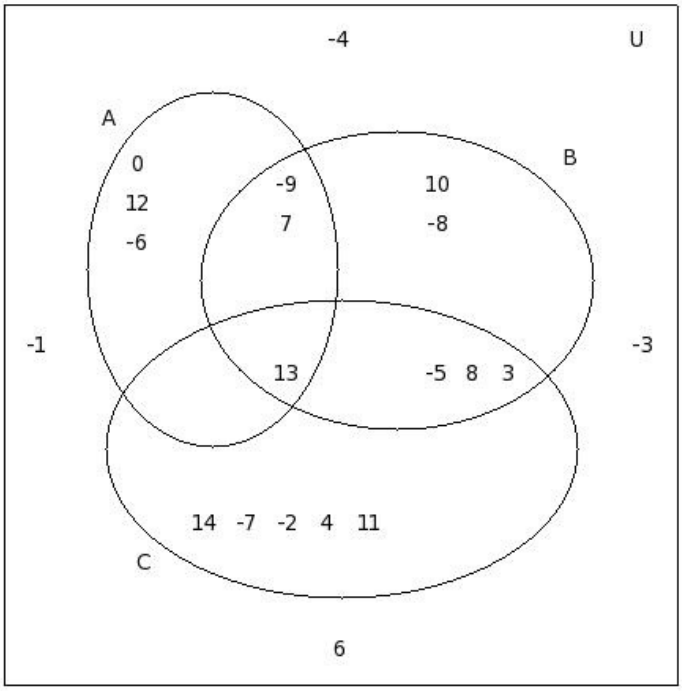
(iv) {-2,9,10,15,-6,12,16} (v) {13,-2,9,10,15,-6,12,16,0}

2. Find (C ∪ A)'



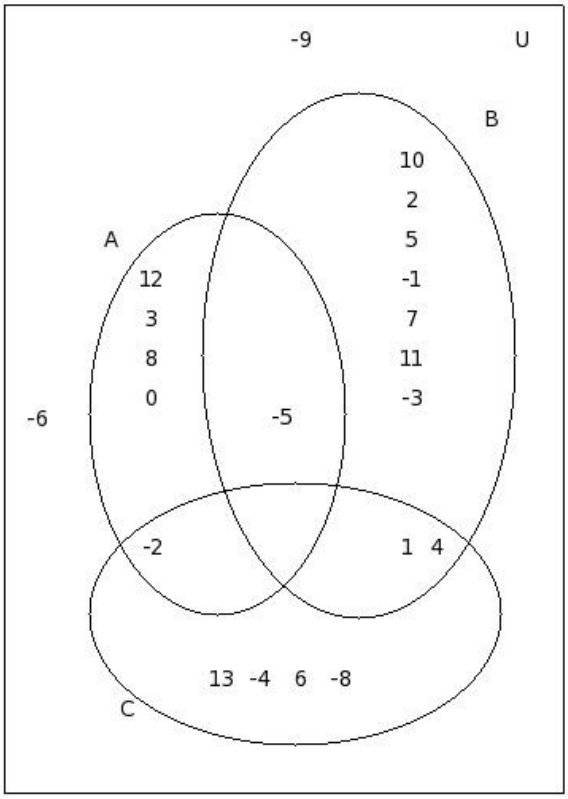
(i) {9,1,-2,-6,-7,-9} (ii) {9,1,-2,8,-7} (iii) {9,1,-2,-6,8,-7,12} (iv) {9,1,-2,-6,8,-7} (v) {9,1,-6,8,-7,12}

3. Find (A ∪ B ∪ C)'



(i) {-1,6,-4,-3,3} (ii) {-1,-4,-3} (iii) {-1,-4,-3,3} (iv) {-1,6,-4,-3} (v) {-1,6,-3,-2}

4. Find (A ∩ B)'

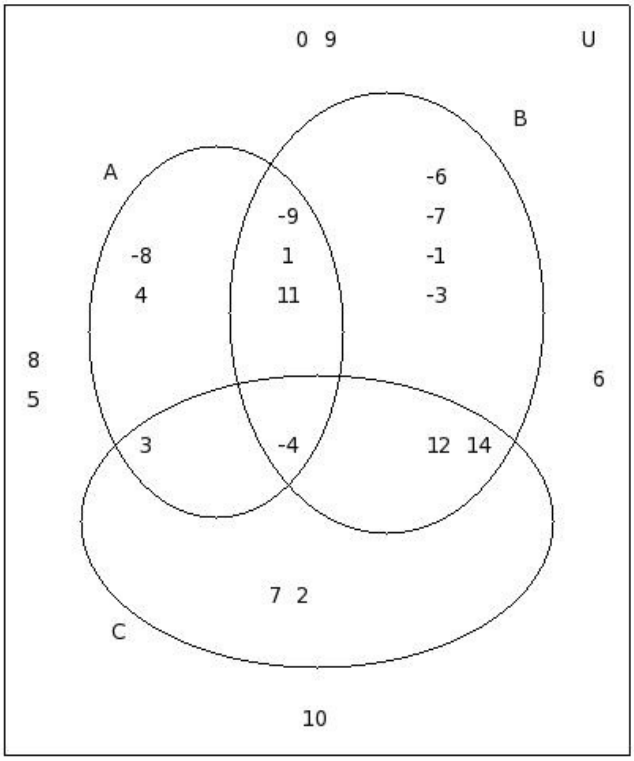


(i) {1,0,8,13,12,-3,-1,3,6,4,11,-6,-9,10,-4,5,-2,-8,7,2,-5} (ii) {1,0,8,13,12,-3,-1,3,6,4,11,-6,10,-4,5,-2,-8,7,2,-5}

(iii) {1,0,8,13,12,-3,-1,3,6,4,11,-6,-9,10,-4,5,-2,-8,7,2} (iv) {1,0,13,12,-3,-1,3,6,4,11,-6,-9,10,-4,5,-2,-8,7,2,-5}

(v) {1,0,8,13,12,-3,-1,3,6,4,11,-6,-9,10,-4,5,-2,-8,2}

5. Find (B ∩ C)'

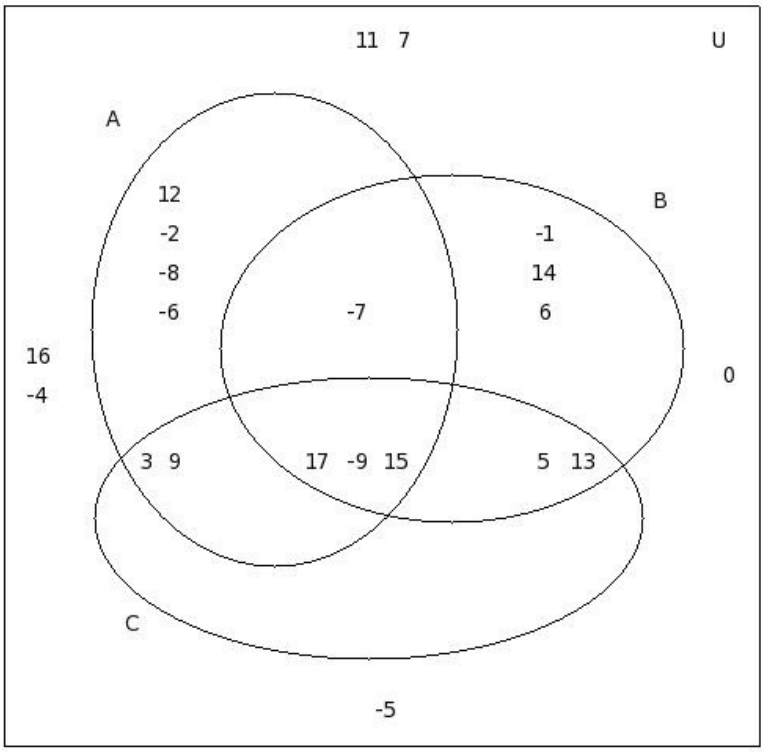


(i) {9,-6,-3,6,0,7,-7,8,2,10,-9,11,4,5,1,-8,-1,3} (ii) {9,-6,-3,6,0,7,-7,8,2,10,-9,11,5,1,-8,-1,3,-4}

(iii) {9,-6,-3,6,7,-7,8,2,10,-9,11,4,5,1,-8,-1,3} (iv) {9,-6,6,0,7,-7,8,2,10,-9,11,4,5,1,-8,-1,3,14}

(v) {9,-6,-3,6,0,7,-7,8,2,10,-9,11,4,5,1,-8,-1,3,-4}

6. Find (C ∩ A)'

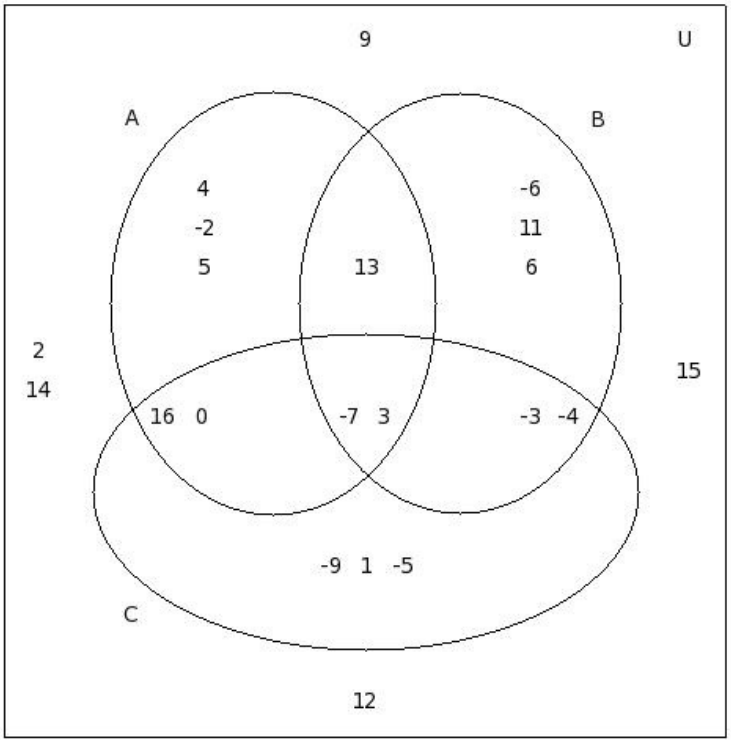


(i) {14,7,-2,-8,-1,5,12,-7,-6,13,6,-5,16,-4,0,11} (ii) {14,7,-2,-8,5,12,-7,-6,13,6,-5,16,-4,0,11,15}

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

(v) {14,7,-2,-8,-1,5,12,-7,13,6,-5,16,-4,0,11,3}

7. Find (A ∩ B ∩ C)'

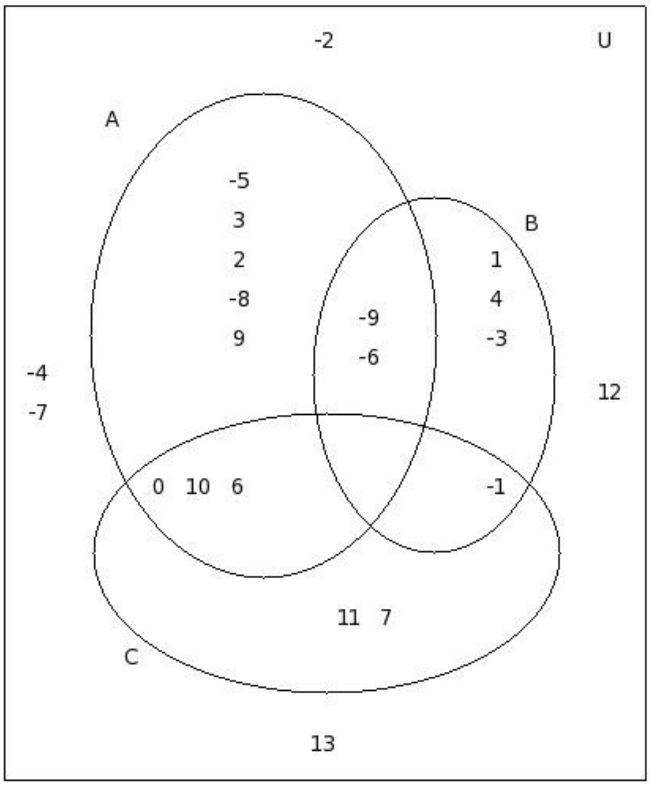


(i) {0,15,13,14,11,4,5,9,16,-6,12,-9,6,-5,-4,1,-2,-3,2} (ii) {0,15,13,14,11,4,5,9,16,-6,12,-9,6,-5,-4,-2,-3,2}

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

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

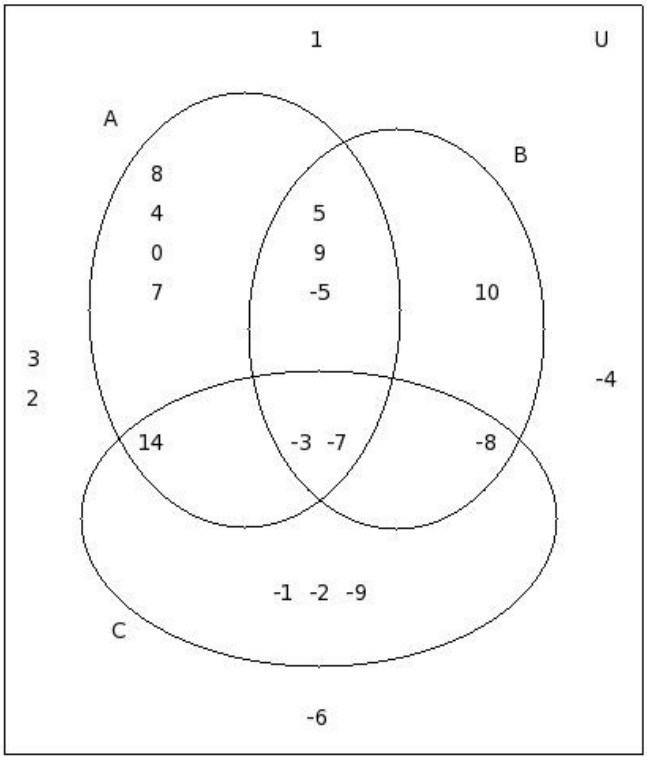
8. Find (A − (A ∩ (B ∩ C)))'



(i) {4,-4,1,-7,-2,11,13,7,-1,12,-3} (ii) {4,-4,1,-7,-2,11,13,7,-1,12,-3,-5} (iii) {4,-4,1,-7,-2,13,7,-1,12,-3}

(iv) {-4,1,-7,-2,11,13,7,-1,12,-3,-5} (v) {4,-4,1,-7,-2,11,7,-1,12,-3,-9}

9. Find (B − (A ∩ (B ∩ C)))'

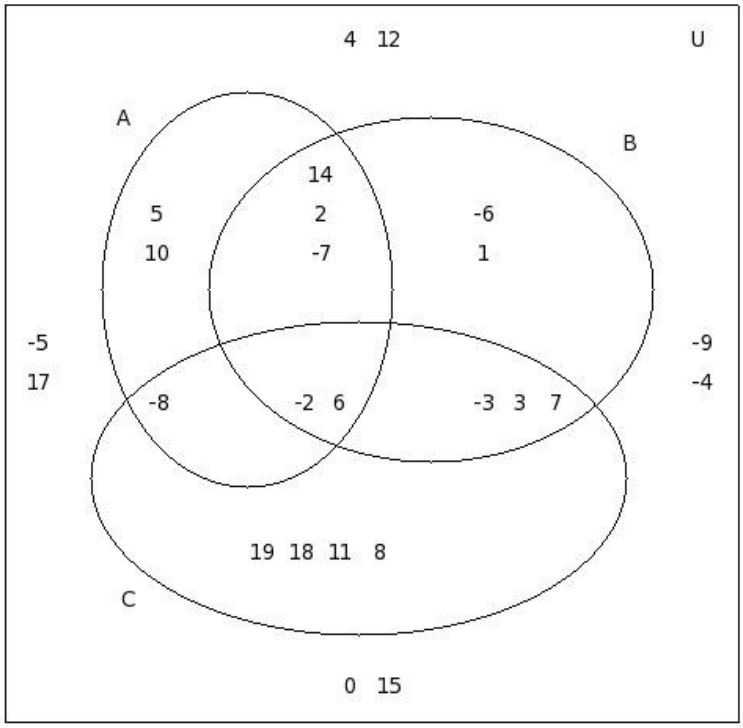


(i) {14,8,-1,-7,7,-9,-2,4,3,-3,-6,0,-4,2,1} (ii) {14,8,-1,-7,7,-9,-2,4,3,-6,0,-4,2,1,-8}

(iii) {14,8,-1,-7,7,-9,-2,4,3,-3,-6,0,-4,2,1,-8} (iv) {14,8,-1,-7,7,-9,-2,4,3,-3,-6,-4,2,1,5}

(v) {14,8,-1,-7,7,-9,-2,4,3,-3,-6,0,-4,2}

10. Find (C − (A ∩ (B ∩ C)))'



(i) {4,15,-7,-2,1,6,0,-5,-6,-4,12,14,10,17,-9,5,7} (ii) {4,15,-7,2,-2,1,6,0,-5,-6,-4,12,14,10,17,-9,5,3}

(iii) {4,15,-7,2,-2,1,6,0,-5,-6,-4,12,14,10,17,-9} (iv) {4,15,-7,2,-2,1,6,0,-5,-6,-4,12,14,10,17,-9,5}

(v) {15,-7,2,-2,1,6,0,-5,-6,-4,12,14,10,17,-9,5,3}

11. If μ = {1,4,-2,-7,8,6,7,-4,5,3,10,-1,2,12,9,-6,-9,11,-3,-8},A = {1,4,-2,-7,8,6}, B = {7,-4,-2,5,3,-7,1,10,8}, C = {6,-1,8,4,2,12}, find A'

(i) {7,11,9,-8,-1,5,2,-3,-4,10,-6,3,-9} (ii) {7,11,-8,-1,5,2,-3,12,-4,10,-6,3,-9}

(iii) {7,11,9,-8,-1,5,2,-3,-4,10,-6,3,-9,8} (iv) {7,11,9,-8,-1,5,2,-3,12,-4,10,-6,3,-9}

(v) {7,11,9,-8,-1,5,2,-3,12,-4,10,-6,3,-9,8}

12. If μ = {6,5,-8,12,-5,-7,2,3,13,-4,11,7,-2,-3,14,10,-6,-1,4,1},A = {6,5,-8,12,-5,-7,2}, B = {3,13,-4,11,7,-2,-5,12,-3}, C = {14,10,5,-6,6,-5,-4}, find B'

(i) {-8,1,14,2,-1,4,-7,6,10,-6,5,-4} (ii) {1,14,2,-1,4,-7,6,10,-6,5,-4} (iii) {-8,1,14,2,-1,4,-7,6,10,-6,5}

(iv) {-8,1,14,2,-1,4,-7,6,10,-6} (v) {1,14,2,-1,4,-7,6,10,-6,5}

13. If μ = {1,10,-7,9,8,-4,7,-1,4,0,-5,6,12,-2,2,5,-3,-9},A = {1,10,-7,9,8,-4}, B = {1,-4,-7,7,-1,4,0}, C = {-5,0,7,6,12,-2,-7,8,10}, find C'

(i) {-4,-3,1,2,-9,-1,9,5,4} (ii) {-4,-3,1,2,-9,-1,9,4} (iii) {-4,-3,1,2,-9,-1,9,5,4,7} (iv) {-4,-3,1,2,-9,-1,9,4,7}

(v) {-4,1,2,-9,-1,9,5,4}

14. If μ = {14,0,13,-5,3,2,6,15,10,-9,-8,8,16,1,9,-7,-3,7,-1,17,5,11,-4},A = {14,0,13,-5,3,2,6,15,10,-9}, B = {-8,8,16,-9,15,3,1,-5,14}, C = {0,15,2,10,13,9,-7}, find (A ∪ B)'

(i) {-3,9,-1,-7,5,7,17,-4,11,2} (ii) {-3,9,-1,-7,5,7,17,-4,11} (iii) {-3,9,-1,-7,5,7,-4,11,2}

(iv) {-3,9,-1,5,7,17,-4,11} (v) {-3,9,-1,-7,5,7,-4,11}

15. If μ = {13,-5,1,-6,10,8,2,-3,0,-4,6,16,4,11,9,15,14,5,-7,-9,7,3},A = {13,-5,1,-6,10,8,2,-3}, B = {0,-5,-4,6,16,4,11}, C = {2,13,1,10,9,-3,-5,15,14,5}, find (B ∪ C)'

(i) {-7,8,7,-9,3} (ii) {-7,8,7,-9,3,-6} (iii) {-7,8,7,-9,3,-6,9} (iv) {-7,7,-9,3,-6} (v) {-7,8,7,-9,3,9}

16. If μ = {5,12,13,6,-3,2,9,-7,10,7,-2,-5,3,-6,0,1,11,-1,-9,4},A = {5,12,13,6,-3,2,9}, B = {-7,2,10,7,13,-2}, C = {7,-3,6,-5,13,2,-2,3,-6}, find (C ∪ A)'

(i) {11,10,0,4,-9,1,-7} (ii) {11,10,0,4,-9,1,-1,-7,-2} (iii) {11,10,0,4,-9,1,-1,-7} (iv) {11,10,0,4,-9,1,-7,-2}

(v) {10,0,4,-9,1,-1,-7}

17. If μ = {-2,11,12,-7,9,6,-1,7,-4,1,4,-3,2,10,-6,3,-5,0,8,5},A = {-2,11,12,-7,9,6,-1,7,-4}, B = {1,6,-7,4,9,-3}, C = {-2,1,9,7,2,4,10}, find (A ∪ B ∪ C)'

(i) {5,0,8,-5,-6} (ii) {5,0,8,-5,-6,4} (iii) {3,5,0,8,-6} (iv) {3,5,0,8,-5,-6,4} (v) {3,5,0,8,-5,-6}

18. If μ = {2,4,8,10,7,-7,-5,-2,5,-6,6,12,1,9,-1,3,0,-8,11,-4},A = {2,4,8,10,7,-7}, B = {-5,4,-2,8,5,-6,6}, C = {12,-2,1,8,9,4,6,-6}, find (A ∩ B)'

(i) {-5,0,6,5,2,-2,-4,7,1,10,-8,-1,3,-7,9,-6,11} (ii) {-5,0,6,5,2,-2,-4,7,12,1,10,-8,-1,3,-7,9,-6,11}

(iii) {-5,0,6,5,2,-2,-4,7,12,1,10,-8,-1,3,-7,-6,11,8} (iv) {-5,0,6,5,2,-2,-4,7,12,1,10,-8,-1,3,-7,9,-6,11,8}

(v) {-5,0,6,5,2,-2,-4,7,12,1,10,-8,-1,3,-7,-6,11}

19. If μ = {12,16,1,3,-4,-5,-2,8,15,-6,2,5,9,-8,-9,6,0,17,13,-1,4,11,14},A = {12,16,1,3,-4,-5,-2}, B = {8,15,-6,2,12,-2,-5,5,16}, C = {9,-8,-9,1,6,0,16,17,-4,2}, find (B ∩ C)'

(i) {11,-2,-6,-4,-1,9,-9,5,4,-8,15,12,6,14,17,13,-5,1,3,0,16}

(ii) {11,-2,-6,-4,-1,9,-9,5,4,-8,15,12,6,14,17,13,-5,1,3,0}

(iii) {11,-2,-6,-4,-1,9,-9,5,4,-8,8,15,12,6,14,17,13,-5,1,3,0}

(iv) {11,-2,-6,-4,-1,9,-9,4,-8,8,15,12,6,14,17,13,-5,1,3,0}

(v) {11,-2,-6,-4,-1,9,-9,5,4,-8,8,15,12,6,14,17,13,-5,1,3,0,16}

20. If μ = {-2,10,-7,6,2,-5,1,7,3,-9,0,-3,-1,-8,-4,-6,4,5},A = {-2,10,-7,6,2,-5,1}, B = {7,-5,3,-9,0,-3}, C = {-1,-3,1,2,-9,-8,6}, find (C ∩ A)'

(i) {-2,-4,7,-7,0,10,-9,-1,-3,5,-5,4,-6,3,-8,6} (ii) {-2,-4,7,-7,0,10,-9,-1,-3,5,-5,4,-6,3,6}

(iii) {-2,-4,7,-7,0,10,-9,-1,-3,5,-5,4,-6,3} (iv) {-2,-4,7,-7,0,10,-9,-1,-3,5,-5,-6,3,-8}

(v) {-2,-4,7,-7,0,10,-9,-1,-3,5,-5,4,-6,3,-8}

21. If μ = {1,11,-8,9,-3,0,12,14,4,3,-4,8,2,-5,7,13,-7,5},A = {1,11,-8,9,-3,0,12,14}, B = {1,4,-8,3,-4,0,8}, C = {2,4,-3,-8,3,-5,7,11,13}, find (A ∩ B ∩ C)'

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

(iii) {-4,11,7,3,1,9,12,4,-7,-3,8,13,5,-5,14,0,2,-8} (iv) {-4,11,7,3,1,9,12,4,-7,-3,8,13,-5,14,0,2,-8}

(v) {-4,11,7,3,1,9,12,4,-7,-3,8,13,-5,14,0,2}

22. If μ = {-9,7,10,-4,-3,5,-1,11,6,8,-7,4,-6,1,-8,0,9,2},A = {-9,7,10,-4,-3,5}, B = {-1,11,6,7,8,10,5}, C = {-9,-7,-3,5,4,8,-6}, find (A − (A ∩ (B ∩ C)))'

(i) {-8,4,5,8,1,-6,11,-7,2,0,6,-1} (ii) {-8,4,5,8,1,9,-6,11,-7,2,0,6,-1,7} (iii) {-8,4,5,8,1,9,-6,11,-7,2,0,6,-1}

(iv) {-8,4,5,8,1,9,11,-7,2,0,6,-1,7} (v) {-8,4,5,8,1,9,11,-7,2,0,6,-1}

23. If μ = {-8,-7,6,3,4,-9,9,8,12,0,-5,10,-2,2,1,-1,5,11,-4},A = {-8,-7,6,3,4,-9,9,8,12}, B = {0,-5,9,12,-7,-8}, C = {10,-2,-5,-9,2,0}, find (B − (A ∩ (B ∩ C)))'

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

(iv) {10,3,2,-9,6,5,-2,-4,11,-1,8,4,0} (v) {10,3,2,-9,1,6,5,-2,-4,11,-1,8}

24. If μ = {-7,3,15,2,19,-4,-9,16,-2,0,14,4,17,12,-3,6,-8,5,7,10,20,18,8,-1,-5,1},A = {-7,3,15,2,19,-4,-9,16,-2,0}, B = {2,14,16,-7,4,17,-9,-2,12,-4}, C = {-7,-3,-2,6,0,-8,5,16,7}, find (C − (A ∩ (B ∩ C)))'

(i) {-9,20,14,-5,19,8,3,18,1,15,4,16,17,-1,10,-7,-4,12,-2,2}

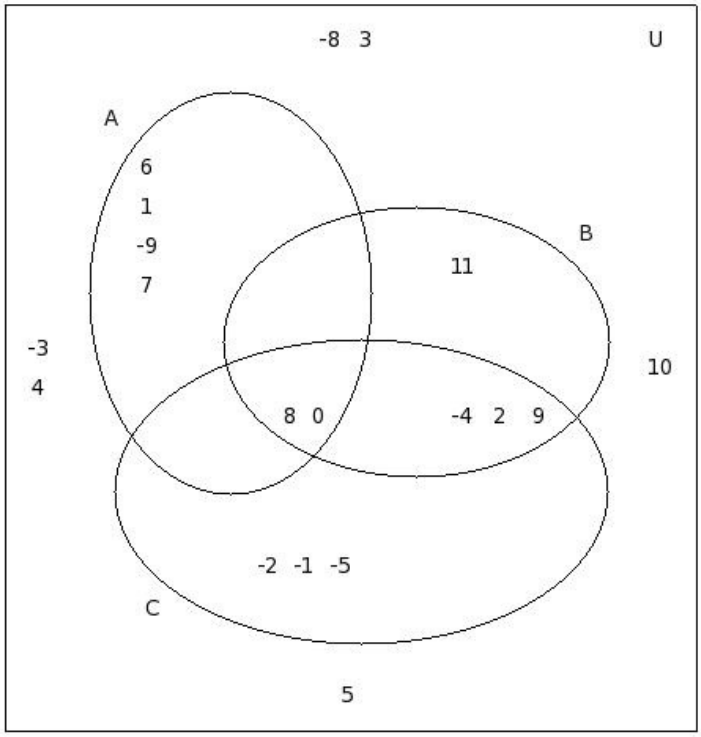
(ii) {-9,20,14,-5,19,8,3,18,1,15,4,16,17,-1,10,-7,-4,12,-2,2,-8}

(iii) {20,14,-5,19,8,3,18,1,15,4,16,17,-1,10,-7,-4,12,-2,2}

(iv) {-9,20,14,-5,19,8,3,18,1,15,4,17,-1,10,-7,-4,12,-2,2,-8}

(v) {-9,20,14,-5,19,8,3,18,1,15,4,17,-1,10,-7,-4,12,-2,2}

25. Find A'

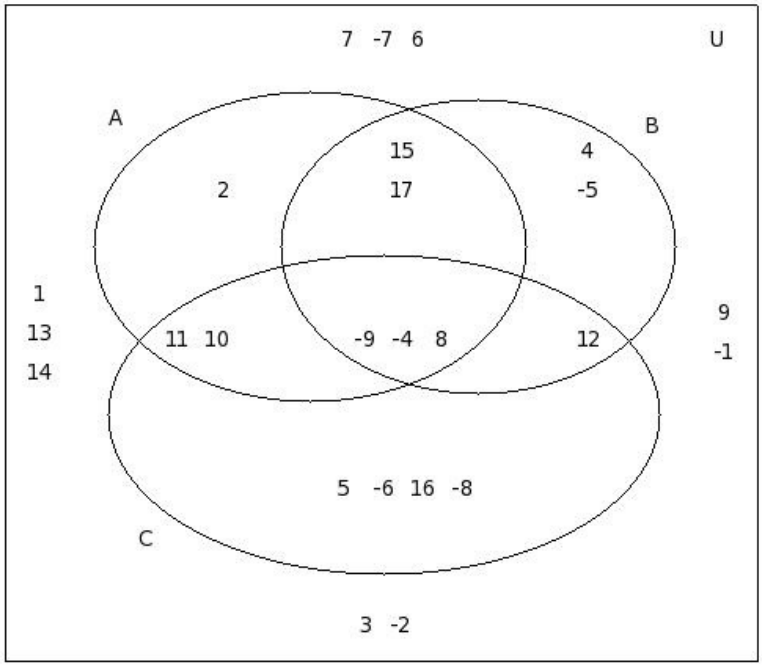


(i) {-2,-3,-5,3,4,10,-4,9,11,5,-8,2,-1,7} (ii) {-2,-3,-5,3,4,10,-4,9,11,5,-8,2,-1}

(iii) {-2,-3,-5,3,10,-4,9,11,5,-8,2,-1,7} (iv) {-3,-5,3,4,10,-4,9,11,5,-8,2,-1,0}

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

26. Find B'

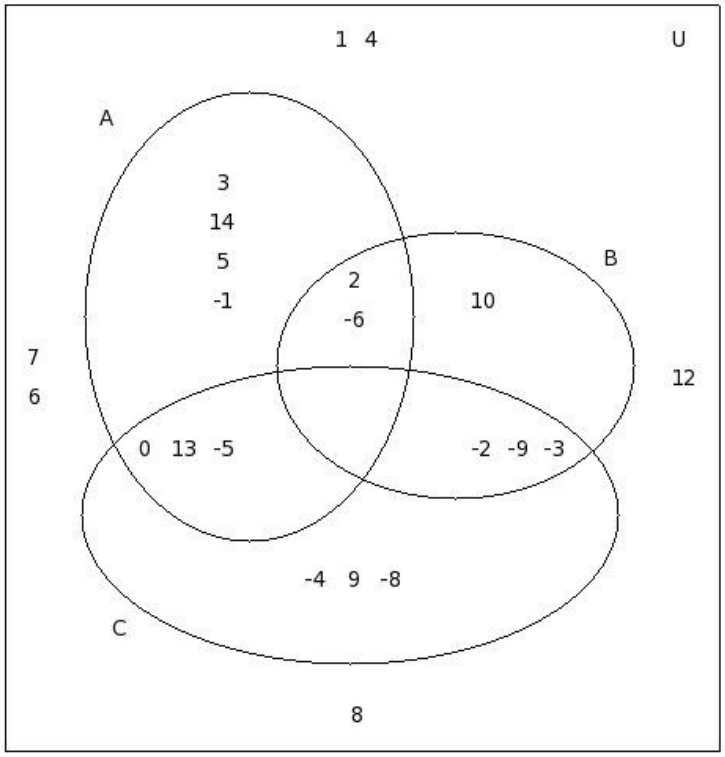


(i) {1,-6,14,-8,10,2,6,13,7,3,16,9,11,-1,5,-2,-7,17} (ii) {1,-6,14,-8,10,2,6,13,3,16,9,11,-1,5,-2,-7,12}

(iii) {1,-6,14,-8,10,2,6,13,7,3,16,9,11,-1,5,-2,-7} (iv) {1,-6,14,-8,10,2,6,7,3,16,9,11,-1,5,-2,-7}

(v) {1,-6,14,10,2,6,13,7,3,16,9,11,-1,5,-2,-7,17}

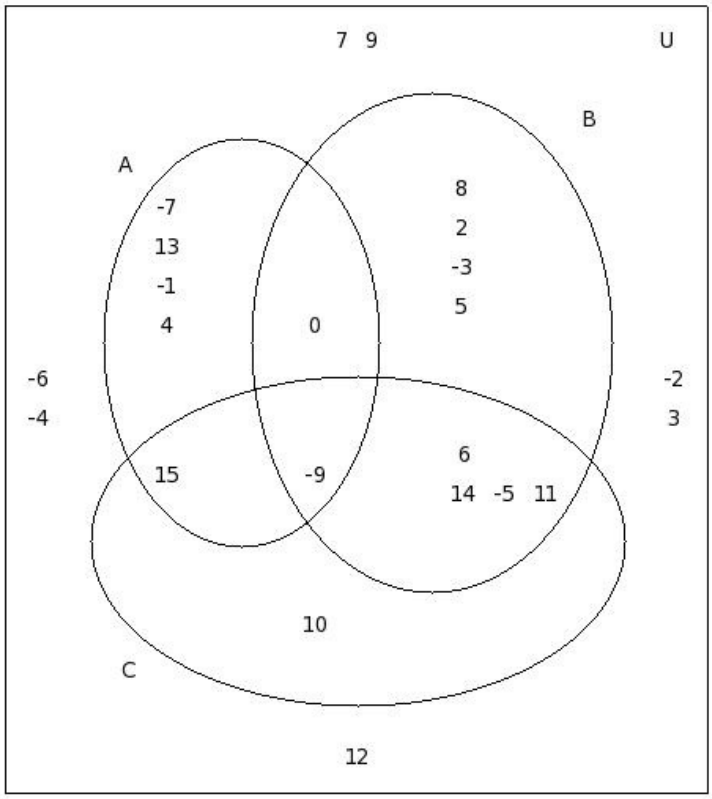
27. Find C'



(i) {10,-1,2,1,14,8,5,12,3,7,6,-6,4} (ii) {10,-1,2,1,8,5,12,3,7,6,-6,4} (iii) {10,-1,2,1,14,8,5,3,7,6,-6,4,-9}

(iv) {10,-1,2,1,14,8,5,12,3,7,6,-6,-2} (v) {10,-1,2,1,14,8,5,12,3,7,6,-6,4,-2}

28. Find (A ∪ B)'



(i) {10,-6,9,-4,7,3,-2} (ii) {10,12,-6,9,-4,7,3,-2,-5} (iii) {12,-6,9,-4,7,3,-2,-5} (iv) {10,12,-6,9,-4,7,3,-7}

(v) {10,12,-6,9,-4,7,3,-2}

Assignment Key

1) (iii)	2) (iv)	3) (iv)	4) (iii)	5) (i)	6) (i)
7) (i)	8) (i)	9) (i)	10) (iv)	11) (iv)	12) (iii)
13) (i)	14) (ii)	15) (ii)	16) (iii)	17) (v)	18) (ii)
19) (iii)	20) (v)	21) (ii)	22) (iii)	23) (iii)	24) (i)
25) (ii)	26) (iii)	27) (i)	28) (v)		

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