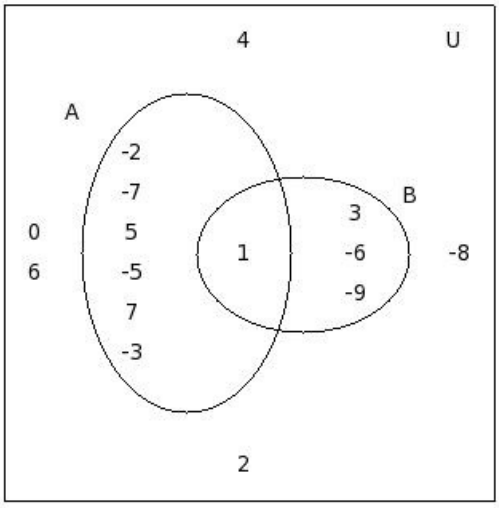
EduSahara™ Assignment

Name : Two Set Problems

Chapter : Sets

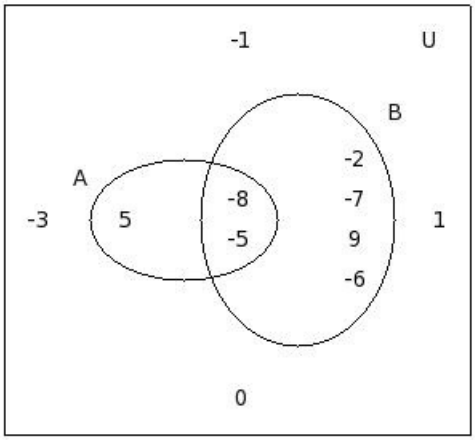
Grade : ICSE Grade VIII

1. Find A



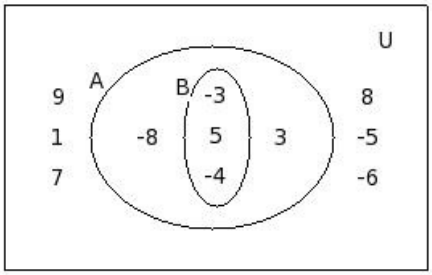
(i) {-3,-5,7,5,-7,2,1,-2} (ii) {} (iii) {5,-5,-7,7,-2,1,-3} (iv) {-3,-8,-5,7,-2,5,1} (v) {-2,-5,-7,5,-3,7}

2. Find B



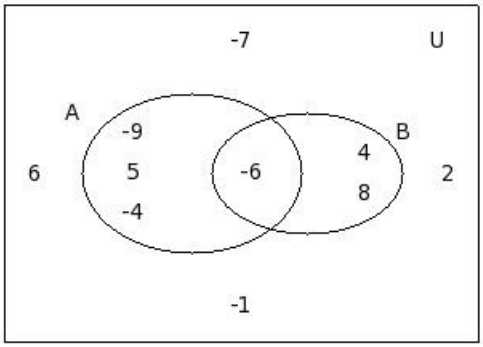
(i) {-2,9,-5,-6,-7} (ii) {-8,9,-5,-6,-2,-7} (iii) {-5,-6,-2,9,0,-7,-8} (iv) {-2,-6,-5,-1,-7,-8} (v) {9,-5,-8,-2,-6}

3. Find A ∪ B



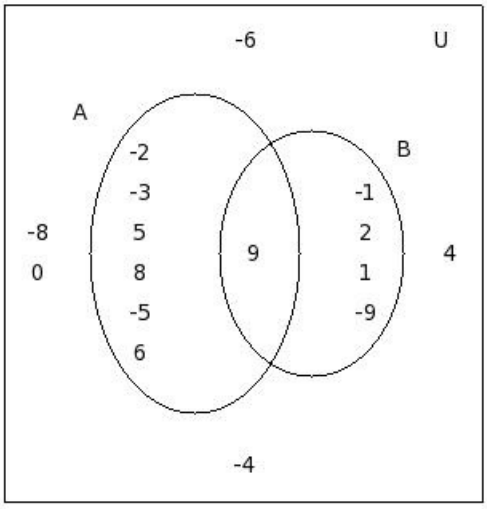
(i) {-8,-4,3,-3} (ii) {3,-3,-8,5} (iii) {5,-3,-8,3,-4} (iv) {-8,-3,3,-4,5,-6} (v) {-4,-8,3,1,5}

4. Find A ∩ B



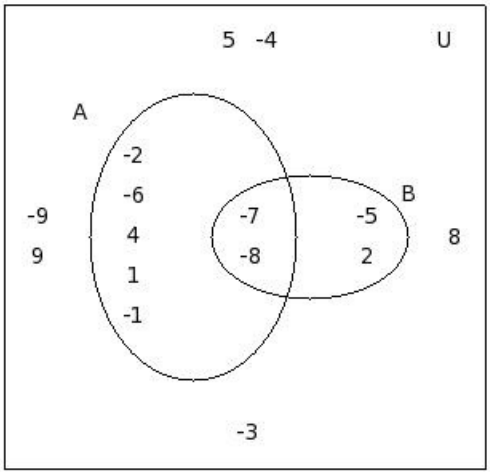
(i) {-6} (ii) {} (iii) {-6,6} (iv) {6}

5. Find A − B



(i) {} (ii) {-5,6,8,-3,5,-2} (iii) {-8,-3,-2,-5,5,8} (iv) {-2,-5,5,-3,6} (v) {-2,-5,0,-3,6,5,8}

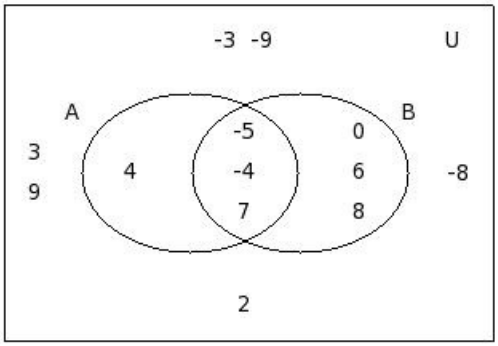
6. Find (A − B) ∪ (B − A)



(i) {-5,4,1,-2,-6,-1,-3} (ii) {-5,-2,-6,1,-1,2} (iii) {2,-2,-5,-1,4,1,-6,-9} (iv) {4,-1,1,2,-6,-2}

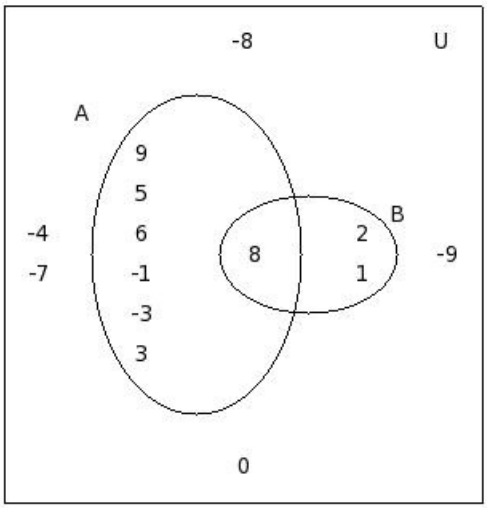
(v) {-2,-5,-6,-1,2,1,4}

7. Find (A ∪ B) − (A ∩ B)



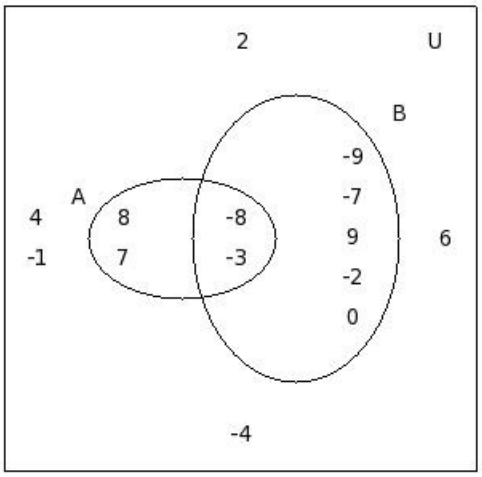
(i) {0,8,6} (ii) {8,4,0,6} (iii) {6,4,0,9} (iv) {9,4,6,8,0} (v) {0,4,8}

8. Find A'



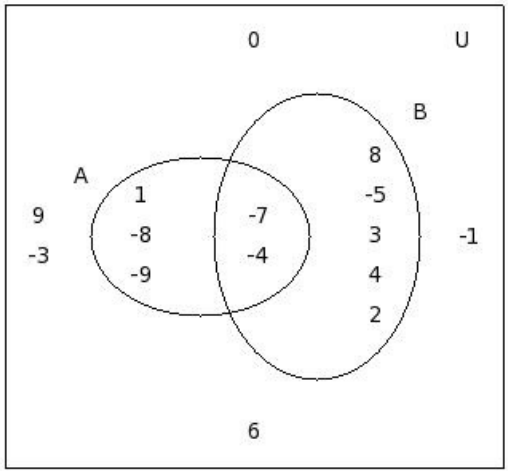
(i) {-9,0,-8,1,-7,-4} (ii) {0,-9,-4,1,-7,2,-8} (iii) {}

9. Find B'



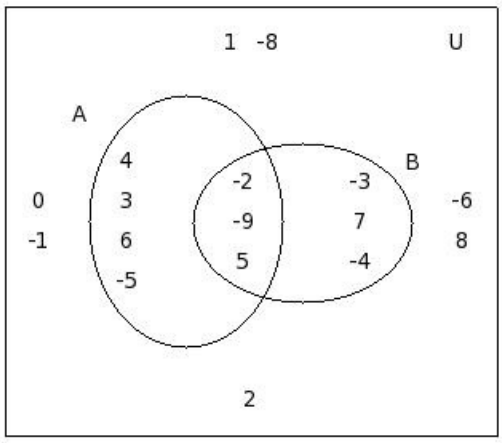
(i) {-4,2,4,6,7,-1} (ii) {} (iii) {6,-4,7,-1,2,8} (iv) {-1,6,2,4,8,-4,7}

10. Find (A ∪ B)'



(i) {-1,-3,6,9} (ii) {} (iii) {6,-1,0,-3,9}

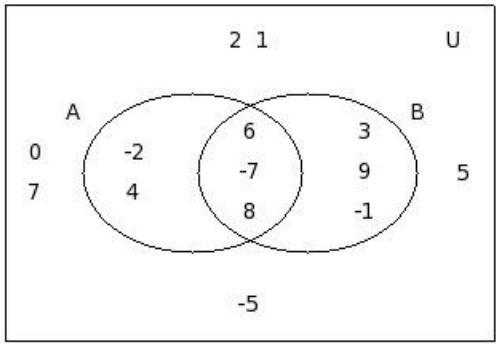
11. Find (A ∩ B)'



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

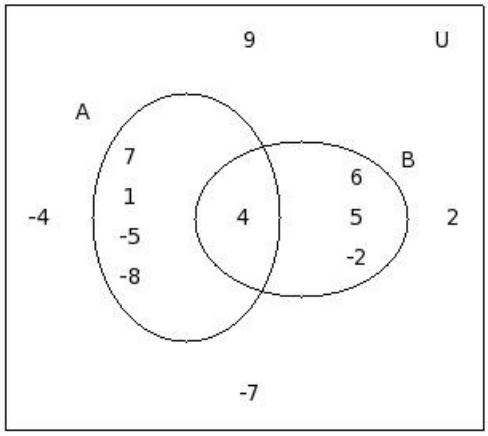
(iv) {} (v) {6,-3,2,1,-6,0,4,-1,3,8,-8,-5,-4}

12. Find (A − B)'



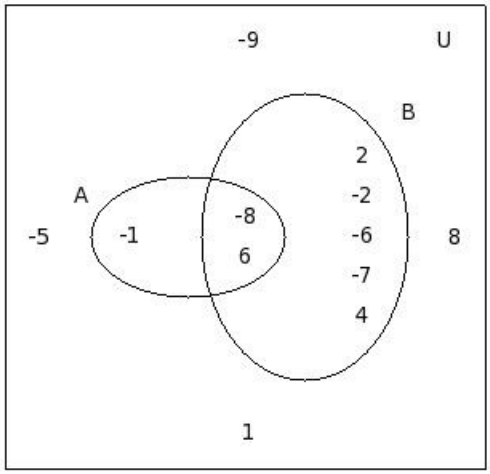
(i) {5,9,0,3,2,6,-7,8,1,-5,7} (ii) {} (iii) {6,0,-7,7,-1,-5,9,3,2,5,1} (iv) {-1,9,5,7,6,2,3,1,8,-7,0,-5}

13. Find (B − A)'



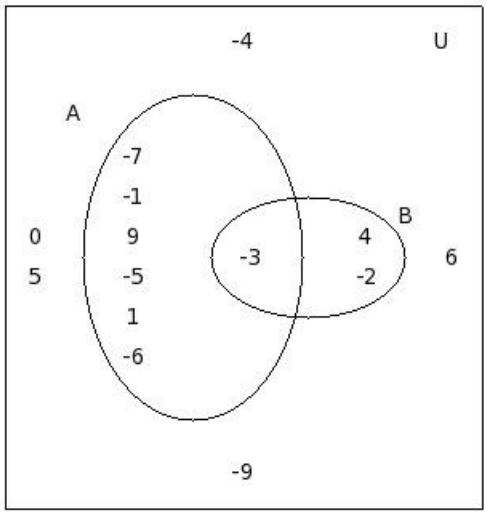
(i) {} (ii) {7,1,-8,9,-5,2,-4,-7} (iii) {7,-7,1,2,-5,9,-8,-4,4} (iv) {2,9,-7,7,-4,-8,4,1} (v) {-5,4,-8,1,-4,-7,2,9}

14. Find ((A − B) ∪ (B − A))'



(i) {} (ii) {8,-8,1,-5,-9} (iii) {6,1,-5,-9,8} (iv) {1,-8,-9,8,-5,6}

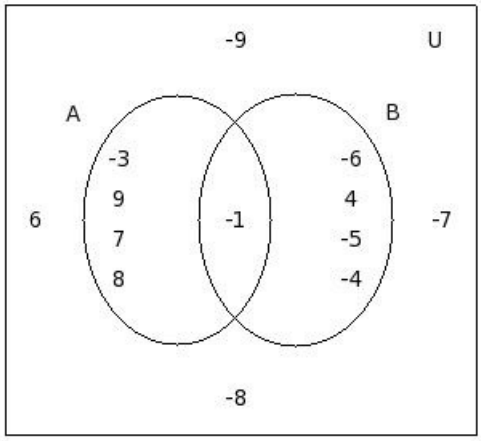
15. Find A' ∪ B'



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

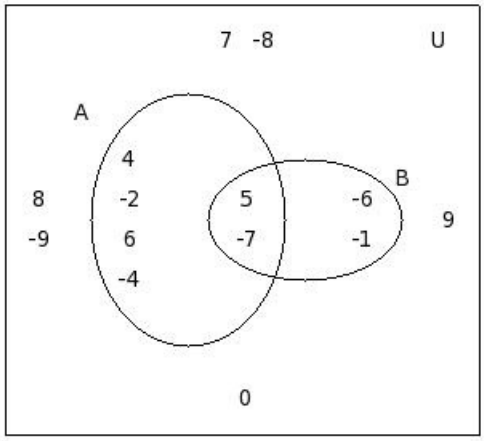
(iv) {1,9,-4,-5,6,-9,-6,-7,-2,0,5,-1} (v) {9,-2,5,1,0,-9,6,-7,-5,-1,4,-6,-4}

16. Find A' ∩ B'



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

17. Find B' ∩ A'



(i) {} (ii) {9,7,8,-8,-9} (iii) {-9,9,-8,7,8,0}

18. If μ = {-2,7,2,4,-5,8,3,-8,-6,6,5,9,-7,1,-3,-9,-4}, A = {-2,7,2,4,-5,8,3} and B = {-2,-8,-6,6,4,3}, find A

(i) {-2,2,-9,-5,8,7,3} (ii) {7,8,4,3,2,-2,-5} (iii) {8,-2,7,3,2,-5} (iv) {-2,3,2,8,-5,-9,7,4} (v) {4,8,2,3,-5,7}

19. If μ = {3,-4,-2,-7,2,1,-9,-6,4,-3,-8}, A = {3,-4,-2} and B = {-7,3,2,1,-9,-2}, find B

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

20. If μ = {3,7,-8,4,8,-2,1,-6,9,-3,5,-9,-1}, A = {3,7,-8,4,8,-2} and B = {3,4,1}, find A ∪ B

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

21. If μ = {-3,6,9,-7,-1,8,1,-5,4,5,-2,-4,3,2,-9}, A = {-3,6,9,-7,-1,8} and B = {1,-5,4,8,9}, find A ∩ B

(i) {8,9,2} (ii) {8,9} (iii) {8} (iv) {9,5} (v) {}

22. If μ = {3,-4,4,-5,-2,-9,-1,-8,0,5,-7,9,7,-3}, A = {3,-4,4,-5,-2,-9} and B = {-1,-8,0,5}, find A − B

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

23. If μ = {-6,0,5,-5,6,-7,3,-8,1,-4,-1,7,9,-3}, A = {-6,0,5,-5,6} and B = {-6,5,-7,3,-8,1}, find B − A

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

24. If μ = {8,9,-2,-4,-7,-5,-9,-6,-3,6,7,4,2,3,0,1}, A = {8,9,-2,-4,-7,-5,-9} and B = {-4,-6,-3,6,7}, find (A − B) ∪ (B − A)

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

(iv) {-7,0,-9,-6,-2,7,-3,8,6,9,-5} (v) {9,-7,-5,8,7,-6,-3,-2,6,-9}

25. If μ = {-6,1,-4,-2,6,7,0,-1,8,4,-9,-8,9,-5,5,3}, A = {-6,1,-4,-2,6,7,0} and B = {1,-2,0,-4,-1}, find (A ∪ B) − (A ∩ B)

(i) {6,7,-1} (ii) {7,-8,-1,-6,6} (iii) {6,-6,7} (iv) {5,7,-1,-6} (v) {6,7,-1,-6}

26. If μ = {3,7,9,-1,-2,-6,4,-9,6,5,-4,-8,-3}, A = {3,7,9,-1} and B = {-2,9,-6,3,4,-9}, find A'

(i) {} (ii) {5,-4,-9,4,-3,-2,6,-6} (iii) {6,-3,-9,-6,-4,4,-8,5} (iv) {-3,-6,-8,-9,-2,5,6,4,-4}

27. If μ = {1,0,-1,7,9,3,-6,-7,-2,-3,-5,6,4}, A = {1,0,-1,7,9} and B = {3,7,-6,-7,0}, find B'

(i) {-5,4,1,-3,-2,9,6} (ii) {} (iii) {-2,6,-5,4,-3,9,-1,1} (iv) {-1,-5,9,4,-2,-3,6}

28. If μ = {-2,0,-5,3,-9,9,7,-4,4,-7,6,-6,-3,2,-1,1,-8}, A = {-2,0,-5,3,-9,9} and B = {3,7,0,-9,9,-4,4}, find (A ∪ B)'

(i) {-6,1,2,-8,-1,6,-7} (ii) {} (iii) {-7,1,2,-8,-6,-3,-1,6}

29. If μ = {-7,9,-8,-5,1,4,6,-6,-4,5,-3}, A = {-7,9,-8,-5} and B = {-7,-5,1,9}, find (A ∩ B)'

(i) {4,1,-4,6,-8,-3,-6} (ii) {} (iii) {4,-8,-3,-4,5,1,-6,6} (iv) {6,-4,-3,-8,-6,4,5} (v) {6,-3,4,1,5,-4,-6}

30. If μ = {-7,-9,-8,1,6,8,5,-4,0,3,-6,-5,4,9}, A = {-7,-9,-8,1,6,8} and B = {5,-4,6,-7}, find (A − B)'

(i) {9,-7,-5,0,-6,4,6,3,-4,5} (ii) {5,-5,4,0,9,-4,-6,3,6} (iii) {} (iv) {9,0,-5,6,-6,-4,4,3,-7}

31. If μ = {9,8,5,6,7,-5,-9,-8,-7,4,2,-2,-6,-1,0,-3}, A = {9,8,5,6,7,-5} and B = {-9,-8,8,-7,5,4,7}, find (B − A)'

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

32. If μ = {-8,-5,9,4,8,-1,-3,-7,0,3,-6,5,-4,-9,1}, A = {-8,-5,9,4,8,-1} and B = {-5,8,-3,-8,-7}, find ((A − B) ∪ (B − A))'

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

33. If μ = {-9,2,5,-3,-4,3,-2,-6,4,-5,0,9,-7,-8}, A = {-9,2,5,-3,-4,3} and B = {-9,-2,-6,4}, find A' ∪ B'

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

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

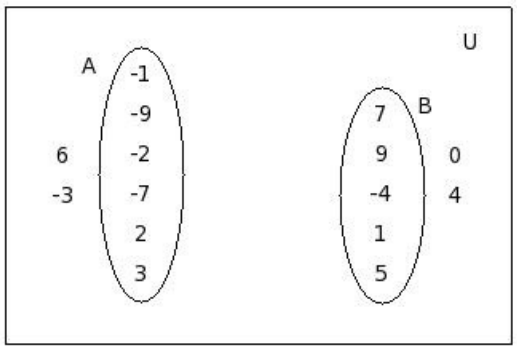
34. If μ = {-3,-9,-8,-4,-2,2,-5,4,8,-7,1,6,3}, A = {-3,-9,-8,-4,-2} and B = {2,-9,-4,-5,4}, find A' ∩ B'

(i) {8,-7,6,1,3} (ii) {6,1,8,3} (iii) {}

35. If μ = {-1,1,-7,0,-2,3,8,-6,-8,2,-4}, A = {-1,1,-7,0,-2} and B = {3,1,-2}, find B' ∩ A'

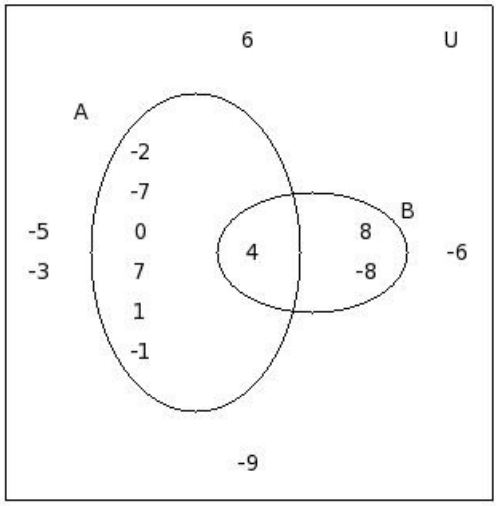
(i) {} (ii) {-8,8,-6,-4,2}

36. Find n(A)



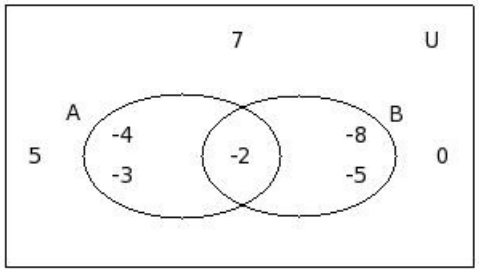
(i) 7 (ii) 8 (iii) 3 (iv) 5 (v) 6

37. Find n(B)



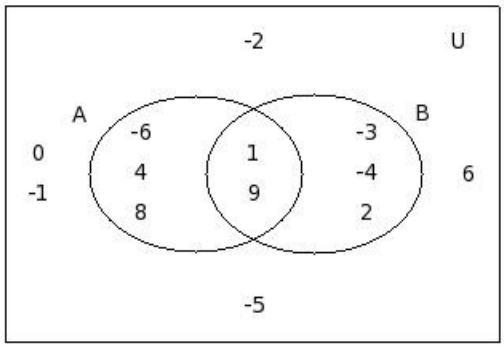
(i) 6 (ii) 2 (iii) 3 (iv) 0 (v) 4

38. Find n(A ∪ B)



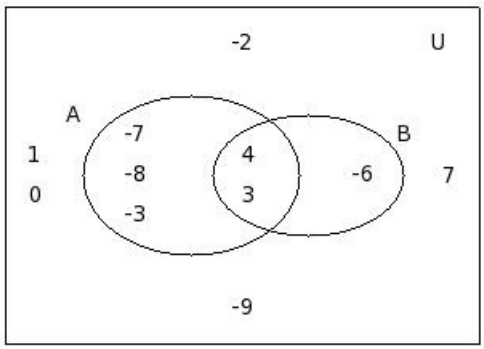
(i) 4 (ii) 6 (iii) 3 (iv) 5 (v) 8

39. Find n(A ∩ B)



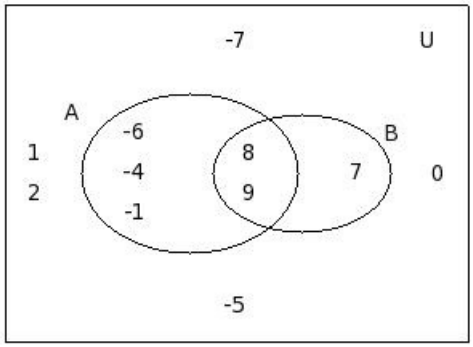
(i) 2 (ii) (-1) (iii) 4 (iv) 3 (v) 1

40. Find n(A − B)



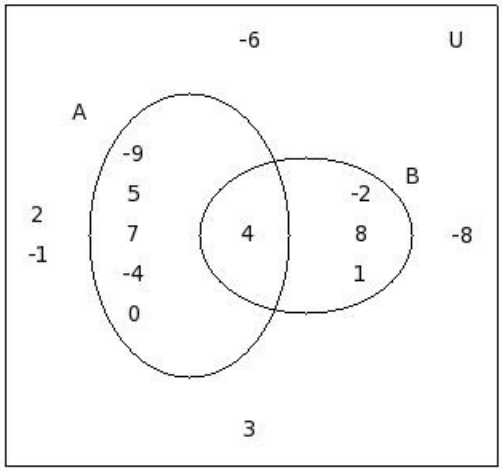
(i) 5 (ii) 3 (iii) 2 (iv) 1 (v) 4

41. Find n(B − A)



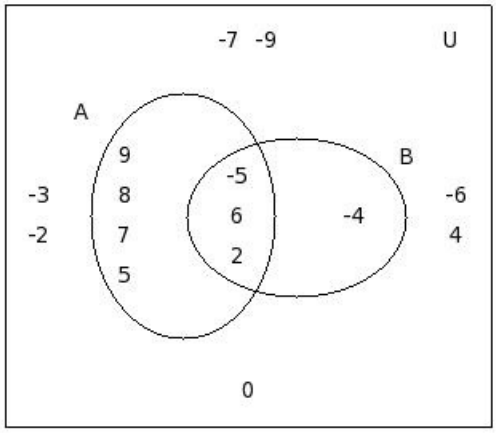
(i) 0 (ii) (-2) (iii) 2 (iv) 1 (v) 3

42. Find n((A − B) ∪ (B − A))



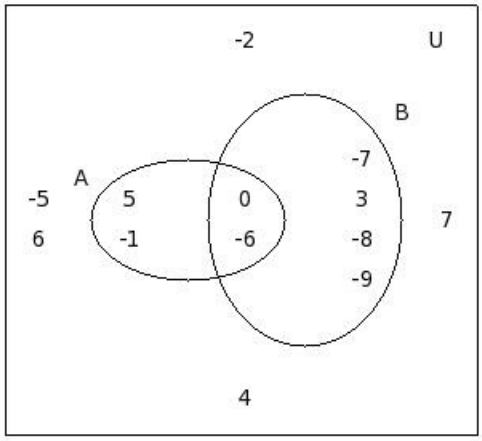
(i) 9 (ii) 10 (iii) 6 (iv) 8 (v) 7

43. Find n((A ∪ B) − (A ∩ B))



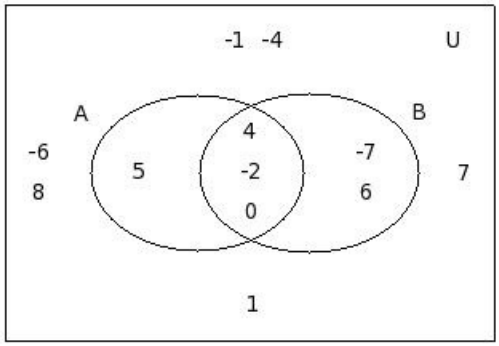
(i) 7 (ii) 2 (iii) 5 (iv) 4 (v) 6

44. Find n(A')



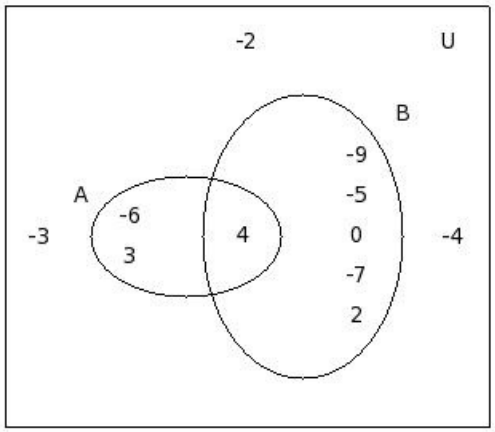
(i) 6 (ii) 10 (iii) 12 (iv) 9 (v) 8

45. Find n(B')



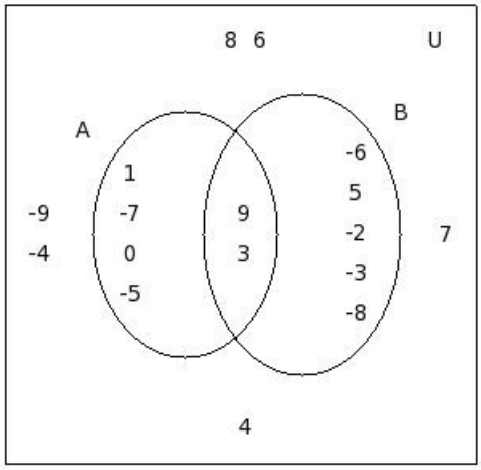
(i) 6 (ii) 10 (iii) 4 (iv) 8 (v) 7

46. Find n((A ∪ B)')



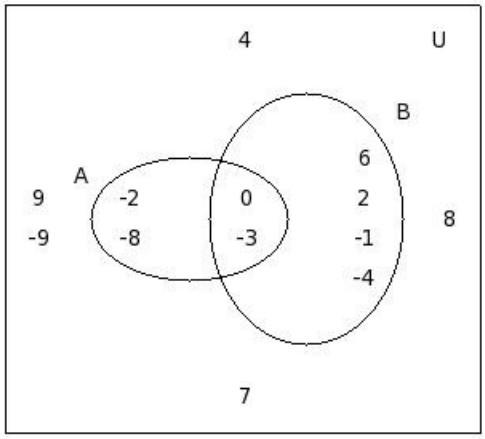
(i) 2 (ii) 5 (iii) 0 (iv) 3 (v) 4

47. Find n((A ∩ B)')



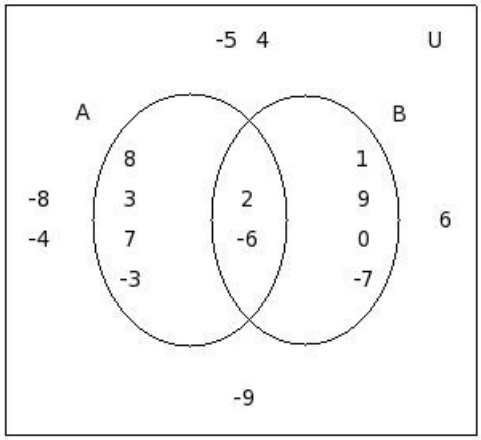
(i) 15 (ii) 18 (iii) 16 (iv) 14 (v) 13

48. Find n((A − B)')



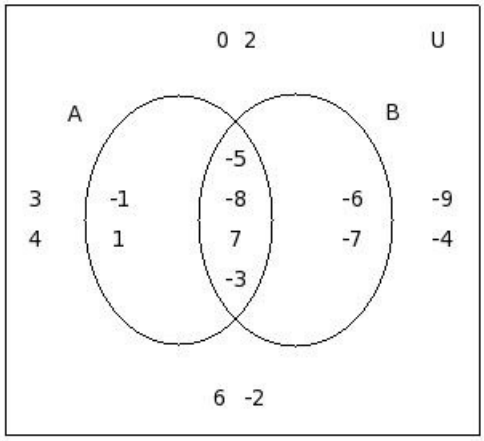
(i) 12 (ii) 10 (iii) 11 (iv) 13 (v) 8

49. Find n((B − A)')



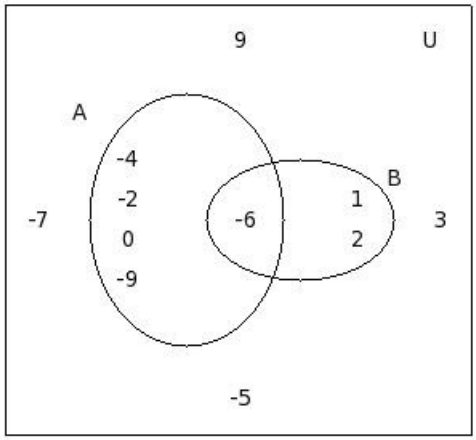
(i) 14 (ii) 13 (iii) 10 (iv) 12 (v) 11

50. Find n(((A − B) ∪ (B − A))')



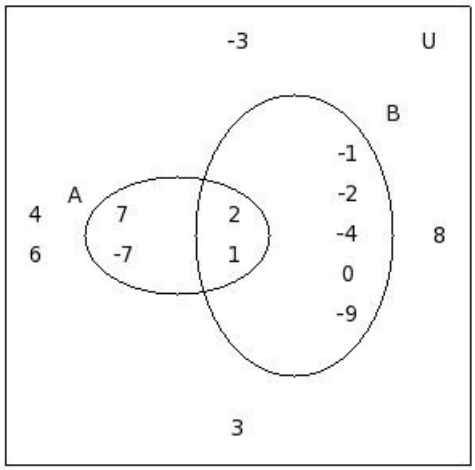
(i) 13 (ii) 15 (iii) 9 (iv) 12 (v) 11

51. Find n(A' ∪ B')



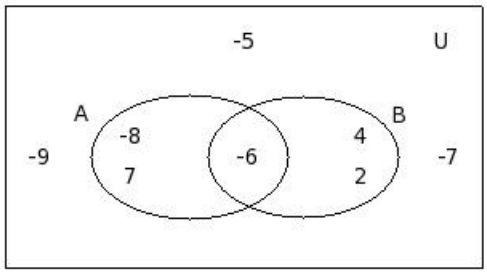
(i) 10 (ii) 12 (iii) 11 (iv) 9 (v) 7

52. Find n(A' ∩ B')



(i) 5 (ii) 2 (iii) 7 (iv) 6 (v) 4

53. Find n(B' ∩ A')



(i) 6 (ii) 3 (iii) 4 (iv) 2 (v) 1

54. If μ = {-6,-8,-7,-2,-1,4,-4,9,0,3,-5,5,-3}, A = {-6,-8,-7,-2,-1,4} and B = {-4,9,-2}, find n(A)

(i) 8 (ii) 5 (iii) 7 (iv) 6 (v) 4

55. If μ = {2,-6,5,6,-4,8,-1,7,4,3,0,1,-8,10,-2,-5,-3,-9}, A = {2,-6,5,6,-4,8,-1} and B = {7,5,2,-1,4,-4,3}, find n(B)

(i) 5 (ii) 6 (iii) 9 (iv) 7 (v) 8

56. If μ = {9,7,-9,3,4,8,-5,0,-6,-2,6}, A = {9,7,-9} and B = {3,4,8,-5,0,-6}, find n(A ∪ B)

(i) 6 (ii) 10 (iii) 9 (iv) 11 (v) 8

57. If μ = {3,5,-8,-7,6,9,-9,0,7,-2,-4}, A = {3,5,-8} and B = {3,-8,-7,6,5,9}, find n(A ∩ B)

(i) 1 (ii) 4 (iii) 3 (iv) 2 (v) 6

58. If μ = {2,-7,7,-8,-4,-9,8,1,-3,9,-1,5,-5,-2}, A = {2,-7,7,-8} and B = {-4,-9,8,2,1,7,-3}, find n(A − B)

(i) 3 (ii) 2 (iii) 4 (iv) 1 (v) 0

59. If μ = {-2,-6,0,-8,-4,-1,5,6,9,7,-7,1,2,-5,-3}, A = {-2,-6,0,-8,-4} and B = {-6,-1,5,6,9,7,-7}, find n(B − A)

(i) 6 (ii) 9 (iii) 4 (iv) 7 (v) 5

60. If μ = {4,-5,2,-9,0,-3,-6,-4,-1,3,5,-8,-7,6}, A = {4,-5,2,-9} and B = {4,0,-3,-6,-4,2,-1}, find n((A − B) ∪ (B − A))

(i) 7 (ii) 9 (iii) 8 (iv) 5 (v) 6

61. If μ = {-9,-7,3,4,6,-3,2,0,1,7,-2,9,-4,-8}, A = {-9,-7,3,4} and B = {6,3,-3,2,-9,0,1}, find n((A ∪ B) − (A ∩ B))

(i) 6 (ii) 7 (iii) 9 (iv) 8 (v) 4

62. If μ = {7,-2,3,0,8,6,-8,-5,-9,2,4,-6}, A = {7,-2,3,0,8} and B = {6,-8,-5,8}, find n(A')

(i) 5 (ii) 10 (iii) 6 (iv) 7 (v) 8

63. If μ = {4,-3,3,-6,6,8,-2,5,9,-9,-4,-5,7,-8,2,1,0}, A = {4,-3,3,-6,6,8,-2} and B = {5,9,-9,4,-4,8}, find n(B')

(i) 11 (ii) 9 (iii) 12 (iv) 10 (v) 14

64. If μ = {6,-2,-8,-1,8,-9,3,1,7,4,-6,-4,0,-7,9}, A = {6,-2,-8,-1,8,-9,3} and B = {1,7,-2,4}, find n((A ∪ B)')

(i) 6 (ii) 7 (iii) 3 (iv) 5 (v) 4

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

(i) 10 (ii) 11 (iii) 13 (iv) 12 (v) 15

66. If μ = {-7,-1,4,-2,-6,-3,-4,5,1,6,-5,9,-9,3,8,2}, A = {-7,-1,4,-2,-6,-3} and B = {-6,-4,5,1,6,-5}, find n((A − B)')

(i) 11 (ii) 10 (iii) 12 (iv) 9 (v) 14

67. If μ = {3,-2,7,-3,5,-1,8,-5,-8,-6,2}, A = {3,-2,7,-3} and B = {5,-1,-2,3}, find n((B − A)')

(i) 6 (ii) 9 (iii) 8 (iv) 10 (v) 11

68. If μ = {6,7,4,-7,1,0,-3,-2,5,2,8,9,-1,-4,-9,-5}, A = {6,7,4,-7,1,0} and B = {-7,-3,-2,5,2,8}, find n(((A − B) ∪ (B − A))')

(i) 5 (ii) 6 (iii) 4 (iv) 9 (v) 7

69. If μ = {-9,-7,5,8,-6,1,2,0,-2,-4,-1,4,-3}, A = {-9,-7,5,8,-6} and B = {1,2,0,-7,5}, find n(A' ∪ B')

(i) 14 (ii) 9 (iii) 11 (iv) 12 (v) 10

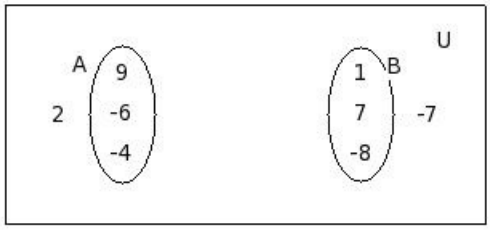
70. If μ = {-4,-9,6,-5,-1,-2,0,2,1,-8,8,9,7}, A = {-4,-9,6,-5,-1} and B = {-5,-2,0,-1,-4}, find n(A' ∩ B')

(i) 7 (ii) 8 (iii) 3 (iv) 6 (v) 5

71. If μ = {-1,7,-3,9,-4,1,4,-5,8,-7,-8,6,-6}, A = {-1,7,-3,9,-4} and B = {-1,1,4,-4,9}, find n(B' ∩ A')

(i) 8 (ii) 7 (iii) 4 (iv) 5 (v) 6

72. Find B − A



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

Assignment Key

1) (iii)	2) (ii)	3) (iii)	4) (i)	5) (ii)	6) (v)
7) (ii)	8) (ii)	9) (iv)	10) (iii)	11) (iii)	12) (iv)
13) (iii)	14) (iv)	15) (v)	16) (i)	17) (iii)	18) (ii)
19) (i)	20) (ii)	21) (ii)	22) (iv)	23) (i)	24) (v)
25) (v)	26) (iv)	27) (iii)	28) (iii)	29) (iii)	30) (i)
31) (iv)	32) (iii)	33) (v)	34) (i)	35) (ii)	36) (v)
37) (iii)	38) (iv)	39) (i)	40) (ii)	41) (iv)	42) (iv)
43) (iii)	44) (iv)	45) (v)	46) (iv)	47) (i)	48) (iii)
49) (iv)	50) (iv)	51) (i)	52) (i)	53) (ii)	54) (iv)
55) (iv)	56) (iii)	57) (iii)	58) (ii)	59) (i)	60) (i)
61) (ii)	62) (iv)	63) (i)	64) (iv)	65) (iv)	66) (i)
67) (ii)	68) (ii)	69) (iii)	70) (iv)	71) (v)	72) (iv)