EduSahara™ Assignment

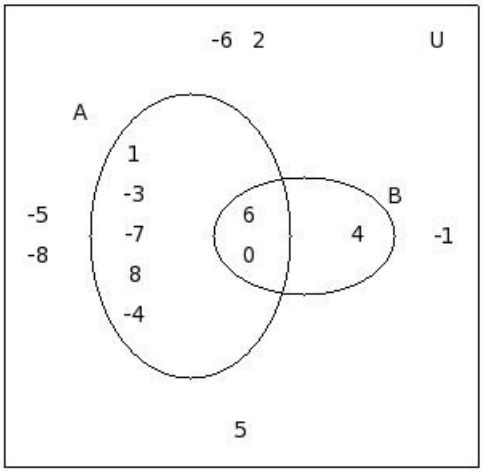
Name : Two Set Problems

Chapter : Sets

Grade : ICSE Grade VIII

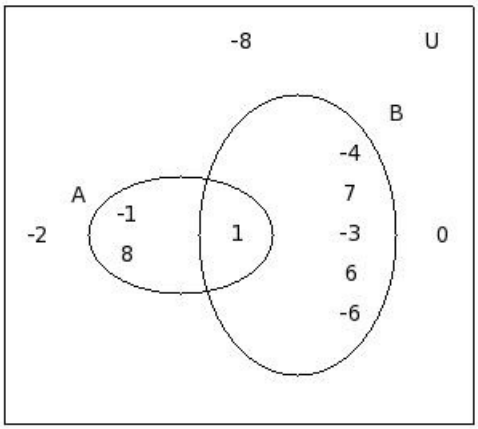
License : Non Commercial Use

1. Find A



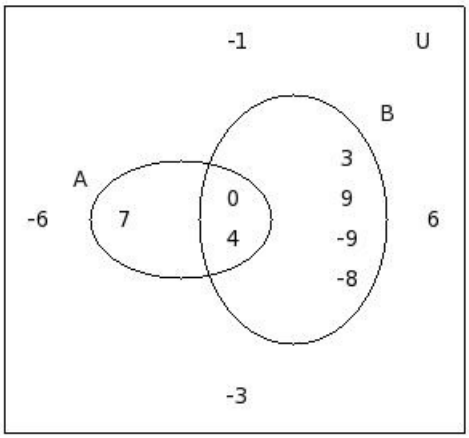
(i) {8,-4,-3,-7,0,1} (ii) {6,-4,0,-7,8,1} (iii) {6,0,-7,8,-4,1,-3} (iv) {8,1,-3,-7,0,-8,-4,6} (v) {1,8,-6,-4,6,0,-7}

2. Find B



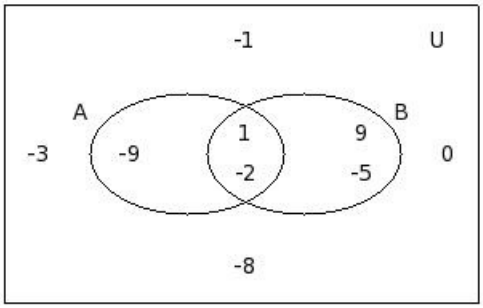
(i) {1,6,-6,7,-3} (ii) {-8,-3,-6,-4,1,6} (iii) {1,7,6,-3,-6,-4,-2} (iv) {-6,6,-4,-3,7} (v) {-4,-6,7,-3,6,1}

3. Find A ∪ B



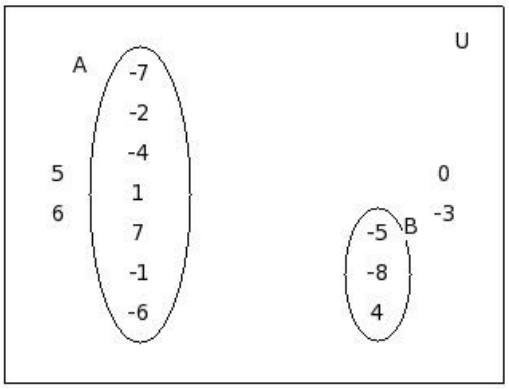
(i) {0,9,-9,3,4,7,-1} (ii) {7,4,-8,-9,9,3} (iii) {-9,9,-8,4,0,7,3,-3} (iv) {-8,-9,4,3,9,7,0} (v) {-9,4,0,9,7,3}

4. Find A ∩ B



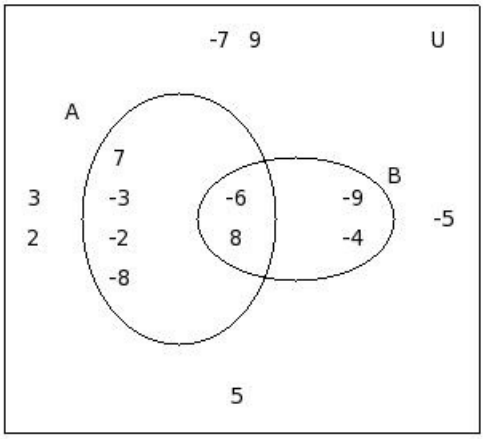
(i) {1} (ii) {-2,1} (iii) {1,0} (iv) {1,-2,-3} (v) {-2}

5. Find A − B



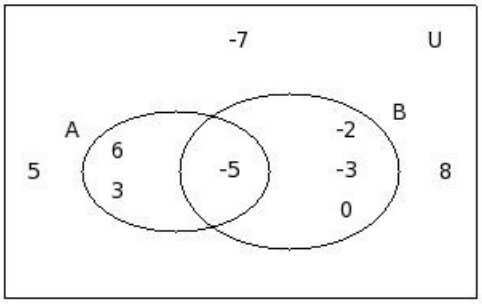
(i) {-6,-4,-7,-2,1,6,7} (ii) {1,5,-6,-7,-2,7,-4,-1} (iii) {-4,-1,1,7,-6,-2} (iv) {-7,-6,-4,1,7,-2,-1} (v) {}

6. Find (A − B) ∪ (B − A)



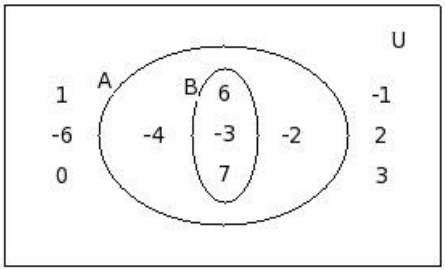
(i) {-2,-9,-7,-8,-3,7,-4} (ii) {-9,-2,-8,-4,-3,7} (iii) {-3,-4,-2,7,-8} (iv) {-2,-4,-9,7,-8} (v) {-2,-3,3,7,-8,-4}

7. Find (A ∪ B) − (A ∩ B)



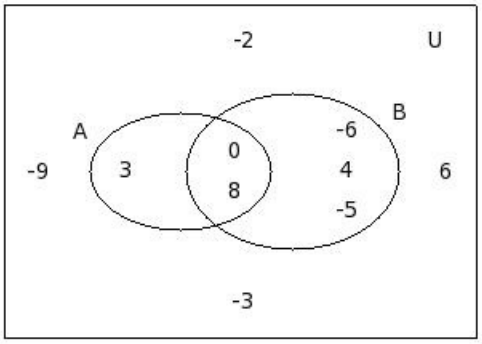
(i) {6,3,0,-2,-3} (ii) {0,3,6,-3} (iii) {0,6,-2,-3} (iv) {-2,-3,6,3,8,0} (v) {3,-3,-7,-2,0}

8. Find A'



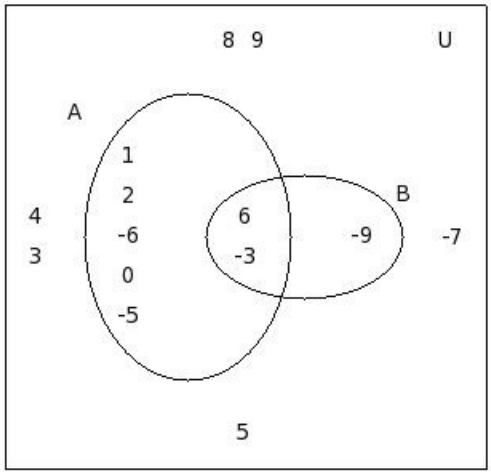
(i) {} (ii) {2,-6,3,0,1,-1} (iii) {3,-1,0,1,-6}

9. Find B'



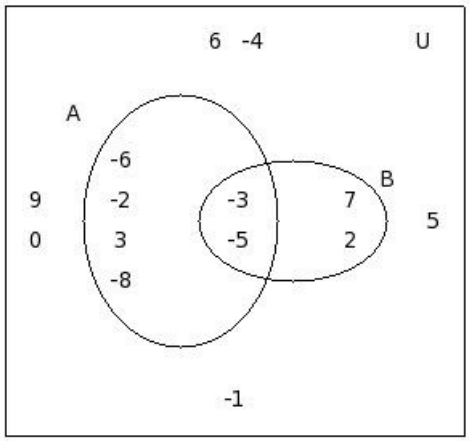
(i) {} (ii) {-2,-9,-3,6} (iii) {6,-9,-2,3,-3}

10. Find (A ∪ B)'



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

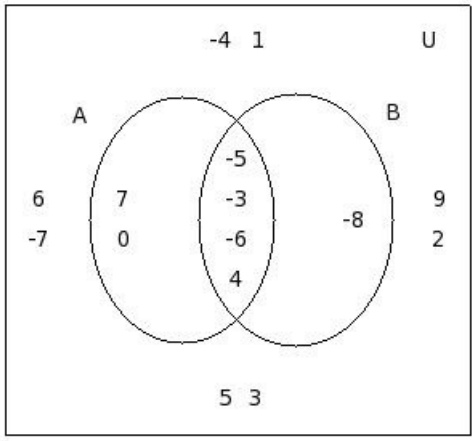
11. Find (A ∩ B)'



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

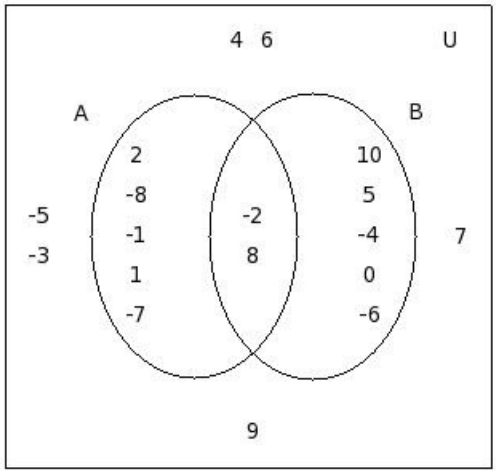
(iv) {-6,3,-1,5,9,6,-2,-8,0,7,-4} (v) {}

12. Find (A − B)'



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

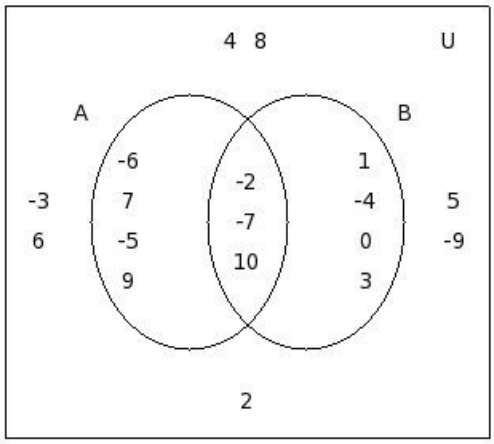
13. Find (B − A)'



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

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

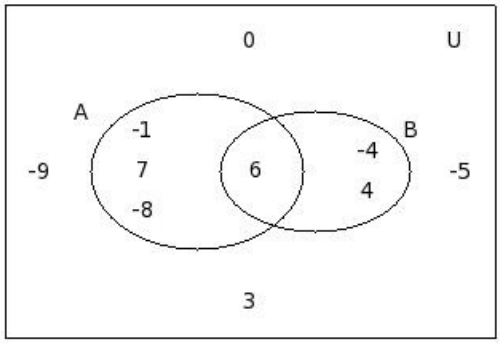
14. Find ((A − B) ∪ (B − A))'



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

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

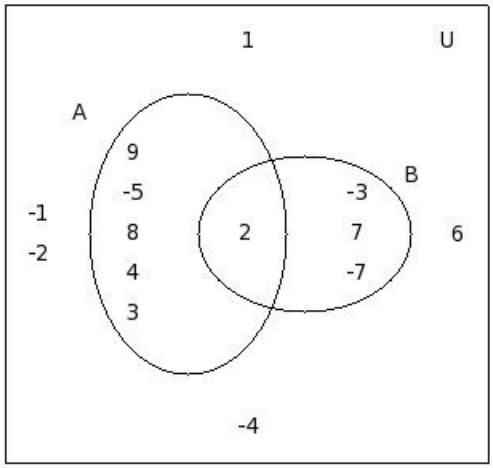
15. Find A' ∪ B'



(i) {} (ii) {3,-4,-9,-5,0,7,-1,-8} (iii) {3,7,4,-5,0,-1,-4,-9} (iv) {-5,0,4,7,-1,-4,-8,3,-9}

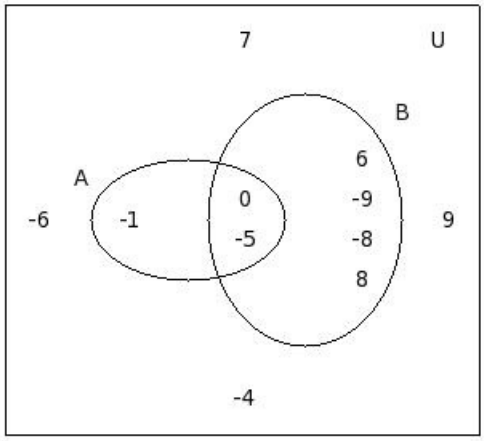
(v) {-8,-9,7,3,-4,4,-5,0}

16. Find A' ∩ B'



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

17. Find B' ∩ A'



(i) {} (ii) {-4,-6,7,9} (iii) {-4,-6,7}

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

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

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

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

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

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

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

21. If μ = {8,0,-2,6,-7,-3,-5,3,-9,7,4,-1,-4,1,-8,-6,2}, A = {8,0,-2,6,-7,-3} and B = {-5,3,-9,7,4,8,-1}, find A ∩ B

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

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

(i) {1,-9,-6,-4} (ii) {0,-4,1} (iii) {-4,-6,1} (iv) {} (v) {-4,1}

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

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

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

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

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

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

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

(i) {9,6,-4,0,-3,-6,4} (ii) {} (iii) {0,-2,-3,4,-6,-4,6,9}

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

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

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

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

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

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

(v) {-8,-2,-5,-1,9,8,7,6,-9,1}

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

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

(iv) {0,-5,6,5,4,7,-7,-9,-3,-1,9} (v) {}

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

(i) {} (ii) {-8,8,4,-1,7,9} (iii) {4,-6,-8,8,9,7,-1}

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

(i) {3,7,0} (ii) {} (iii) {3,0,7,-8} (iv) {0,-8,3}

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

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

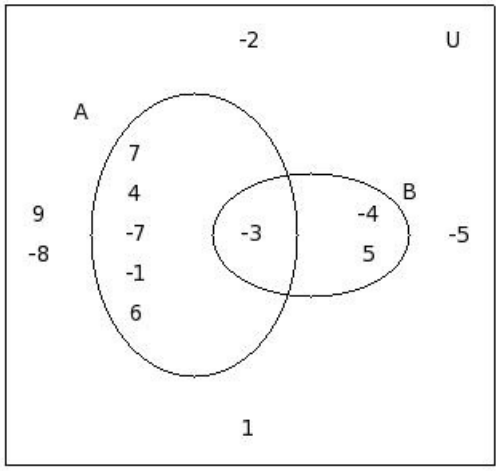
34. If μ = {2,3,7,-4,9,0,5,6,-3,-7,-1,-6,-5,-2,1}, A = {2,3,7,-4,9,0} and B = {-4,5,6,-3,0}, find A' ∩ B'

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

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

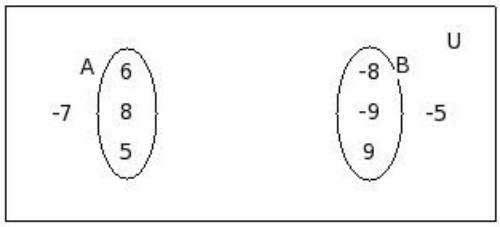
(i) {-3,-1,-4,2,-2} (ii) {2,-4,-2,-3} (iii) {}

36. Find n(A)



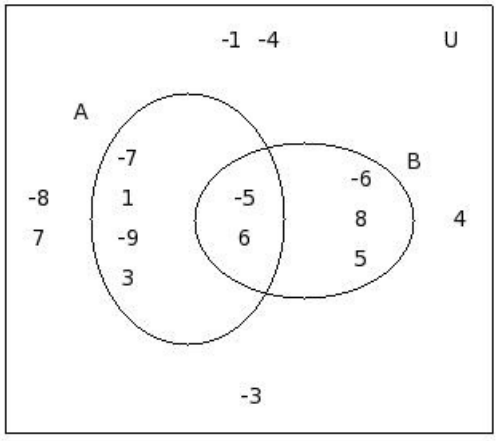
(i) 8 (ii) 6 (iii) 4 (iv) 7 (v) 5

37. Find n(B)



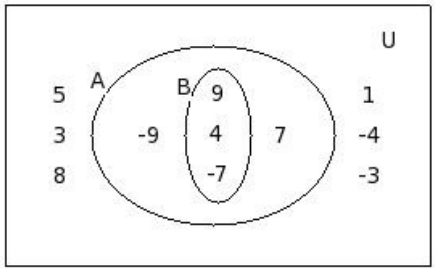
(i) 2 (ii) 0 (iii) 6 (iv) 4 (v) 3

38. Find n(A ∪ B)



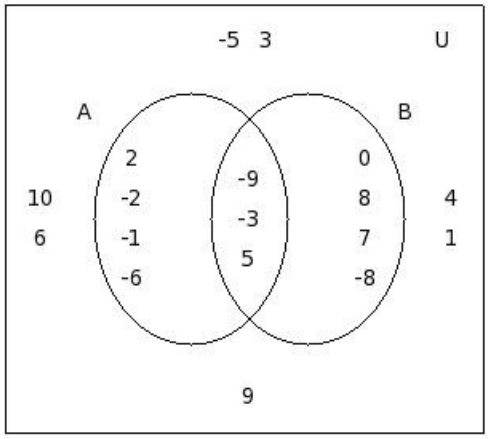
(i) 10 (ii) 6 (iii) 9 (iv) 8 (v) 11

39. Find n(A ∩ B)



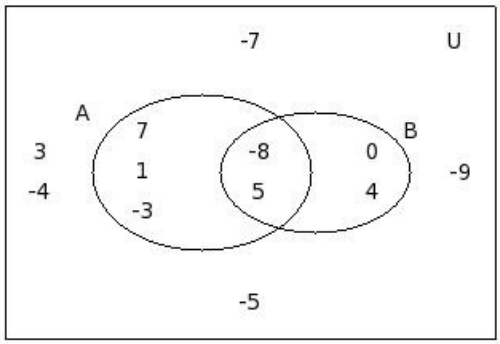
(i) 4 (ii) 2 (iii) 3 (iv) 6 (v) 0

40. Find n(A − B)



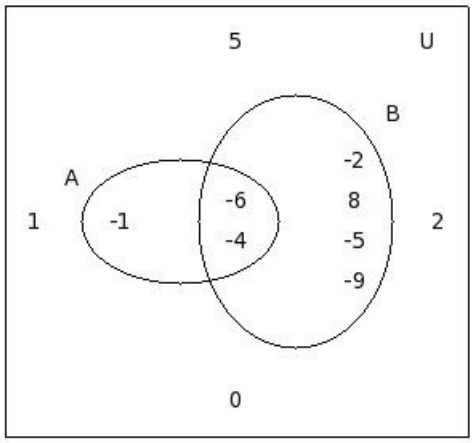
(i) 2 (ii) 4 (iii) 6 (iv) 5 (v) 3

41. Find n(B − A)



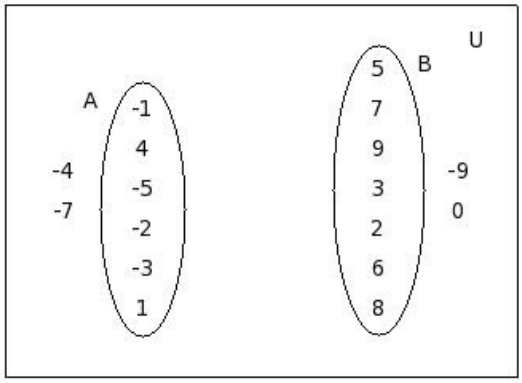
(i) 3 (ii) 0 (iii) 5 (iv) 2 (v) 1

42. Find n((A − B) ∪ (B − A))



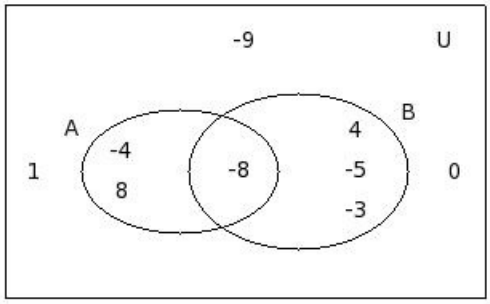
(i) 4 (ii) 7 (iii) 5 (iv) 2 (v) 6

43. Find n((A ∪ B) − (A ∩ B))



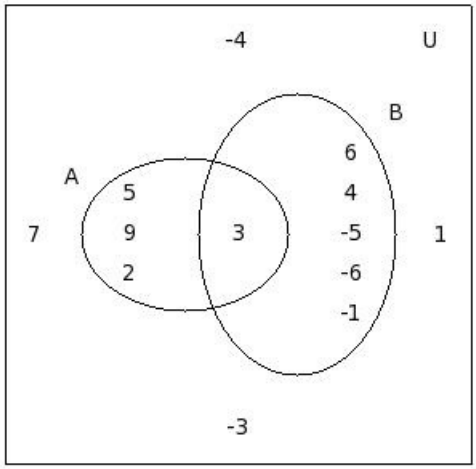
(i) 13 (ii) 12 (iii) 16 (iv) 14 (v) 11

44. Find n(A')



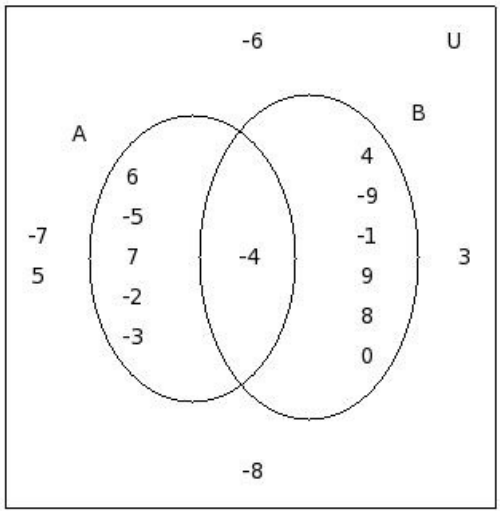
(i) 7 (ii) 6 (iii) 5 (iv) 3 (v) 9

45. Find n(B')



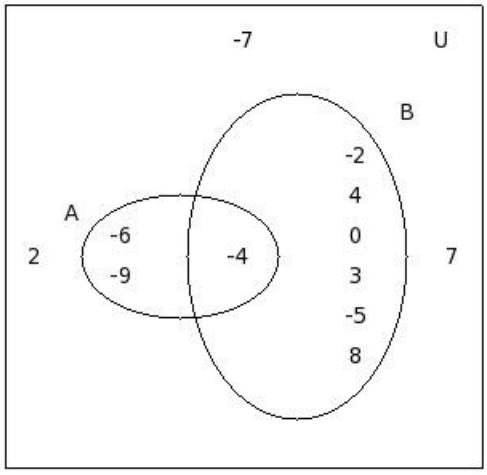
(i) 10 (ii) 4 (iii) 6 (iv) 8 (v) 7

46. Find n((A ∪ B)')



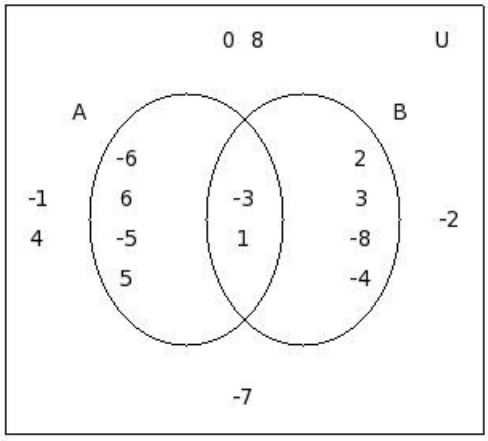
(i) 3 (ii) 5 (iii) 6 (iv) 4 (v) 7

47. Find n((A ∩ B)')



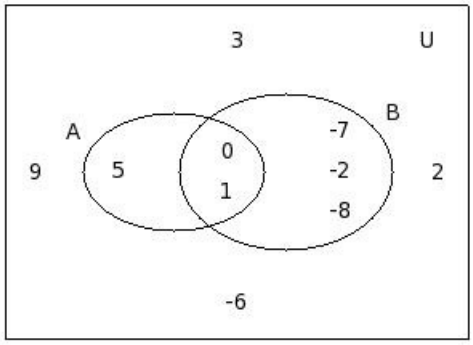
(i) 9 (ii) 12 (iii) 13 (iv) 10 (v) 11

48. Find n((A − B)')



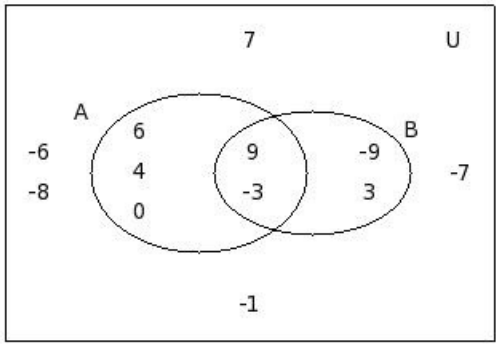
(i) 12 (ii) 9 (iii) 13 (iv) 11 (v) 15

49. Find n((B − A)')



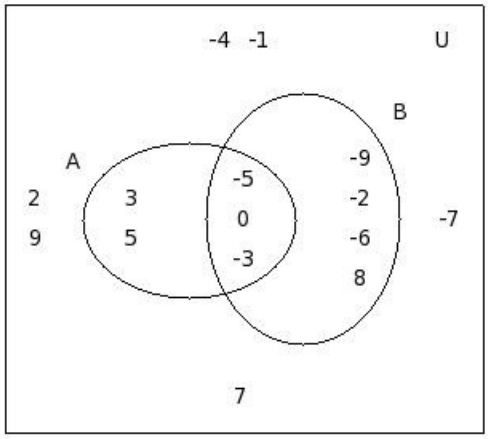
(i) 10 (ii) 4 (iii) 7 (iv) 8 (v) 6

50. Find n(((A − B) ∪ (B − A))')



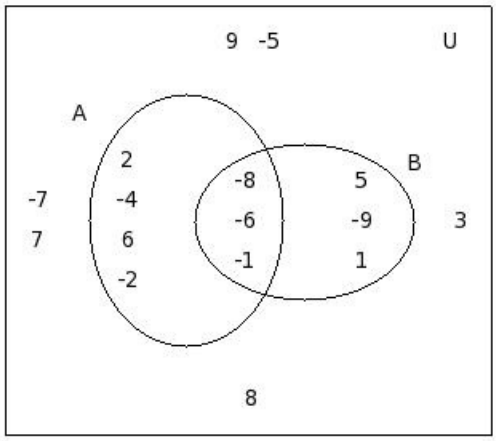
(i) 6 (ii) 10 (iii) 8 (iv) 7 (v) 4

51. Find n(A' ∪ B')



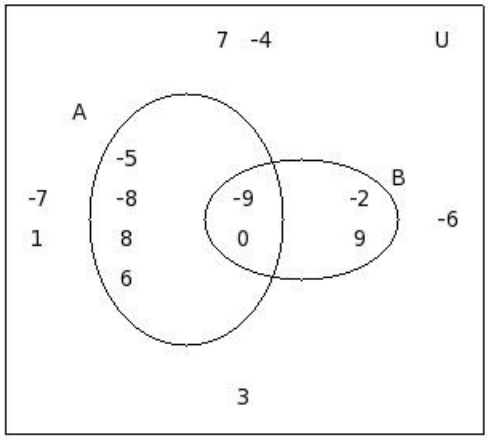
(i) 14 (ii) 13 (iii) 10 (iv) 12 (v) 11

52. Find n(A' ∩ B')



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

53. Find n(B' ∩ A')



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

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

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

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

(i) 5 (ii) 4 (iii) 2 (iv) 3 (v) 6

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

(i) 10 (ii) 7 (iii) 9 (iv) 12 (v) 8

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

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

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

(i) 1 (ii) 5 (iii) 2 (iv) 0 (v) 3

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

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

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

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

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

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

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

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

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

(i) 9 (ii) 11 (iii) 6 (iv) 8 (v) 7

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

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

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

(i) 11 (ii) 9 (iii) 8 (iv) 13 (v) 10

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

(i) 15 (ii) 13 (iii) 10 (iv) 12 (v) 14

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

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

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

(i) 3 (ii) 5 (iii) 7 (iv) 6 (v) 9

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

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

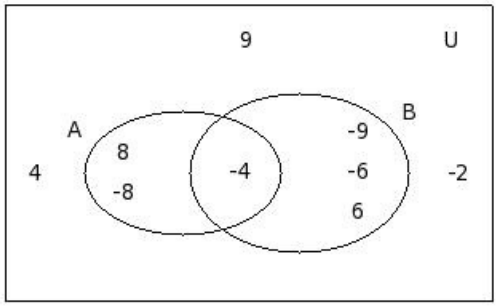
70. If μ = {-5,-6,-4,8,5,-1,1,3,0,4,-8}, A = {-5,-6,-4} and B = {8,5,-4,-1,1,3}, find n(A' ∩ B')

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

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

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

72. Find B − A



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

Assignment Key

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

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