EduSahara™ Learning Center Assignment

Grade : Class X, SSC
Chapter : Sets
Name : Operations on Sets Using Venn Diagrams

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1. Which of the following diagrams represent equivalent sets?

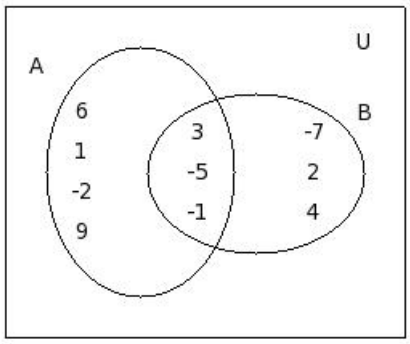

figure 1

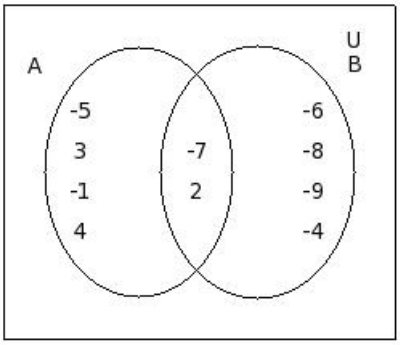

figure 2

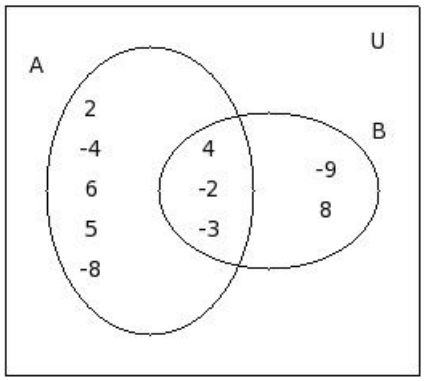

figure 3

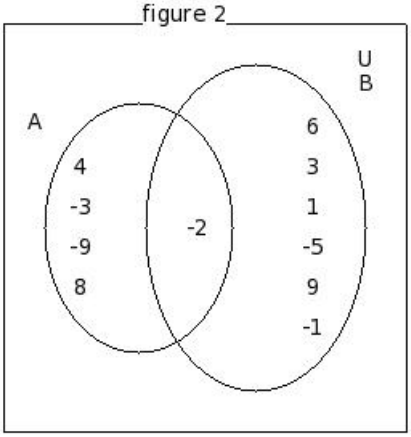

figure 4

(i) figure 3 (ii) figure 1 (iii) figure 4 (iv) figure 2

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2. Which of the following diagrams represent equal sets?

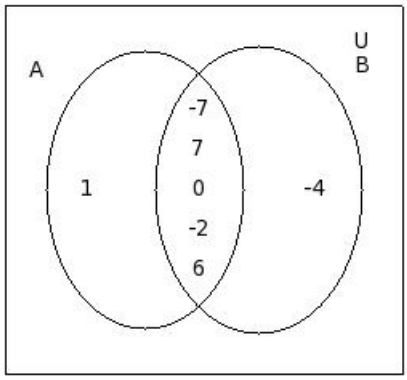

figure 1

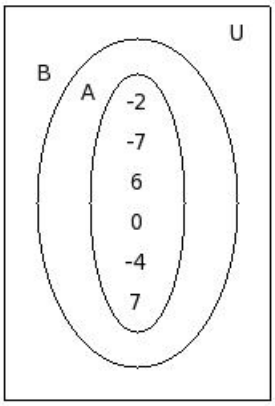

figure 2

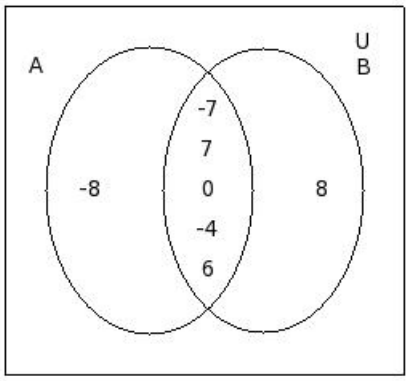

figure 3

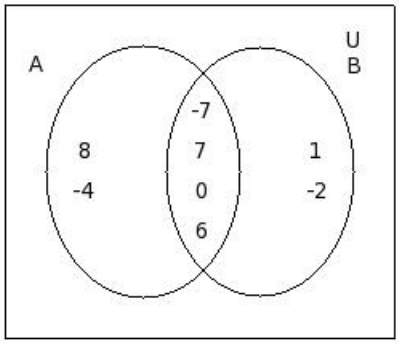

figure 4

(i) figure 4 (ii) figure 1 (iii) figure 2 (iv) figure 3

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3. Which of the following diagrams represent 'A is subset of B'?

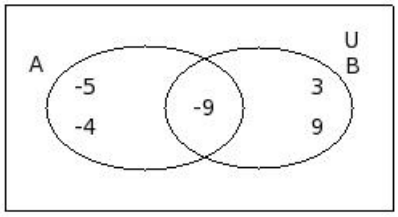

figure 1

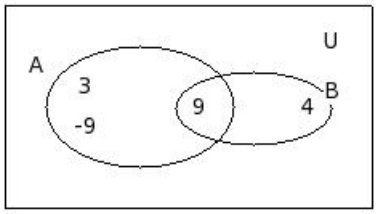

figure 2

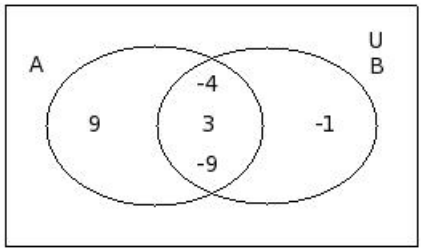

figure 3

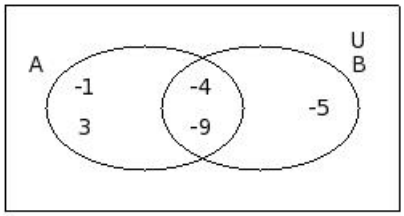

figure 4

(i) figure 1 (ii) figure 4 (iii) figure 3 (iv) None of the above (v) figure 2

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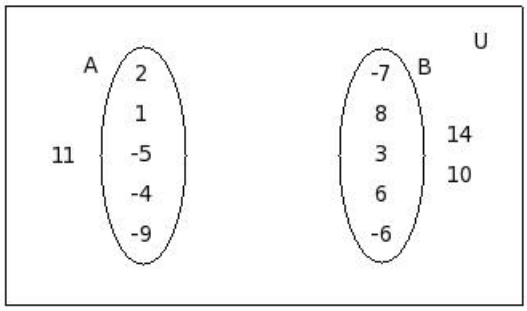
4. $A \cup B =$



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

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

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

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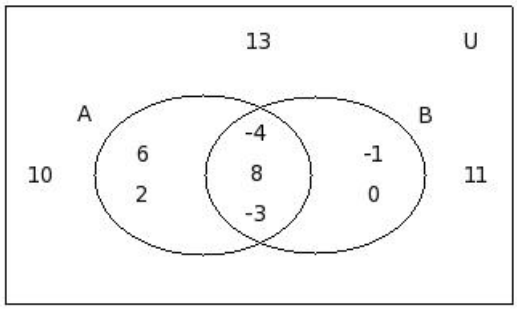
5. A ∩ B =



(i) {-3,6,2,8,-4} (ii) {-3,8,-4,2} (iii) {-4,-3,10,8} (iv) {-1,8,-3,-4} (v) {-4,8,-3}

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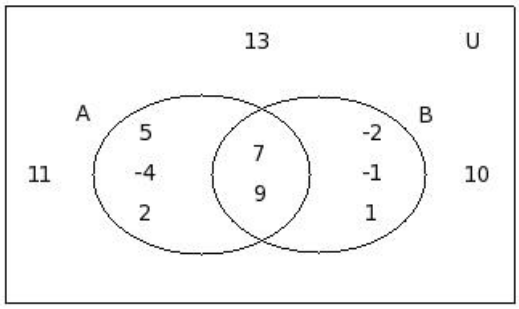
6. A − B =



(i) {-4,5} (ii) {-4,5,2} (iii) {-1,1,-2} (iv) {2,-4,5,7} (v) {-4,2,5,11}

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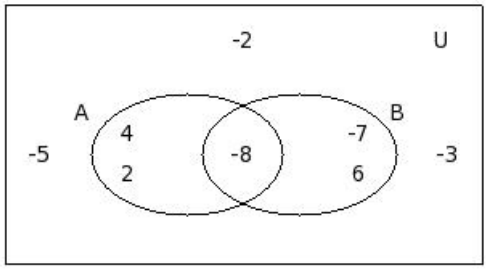
7. Find A



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

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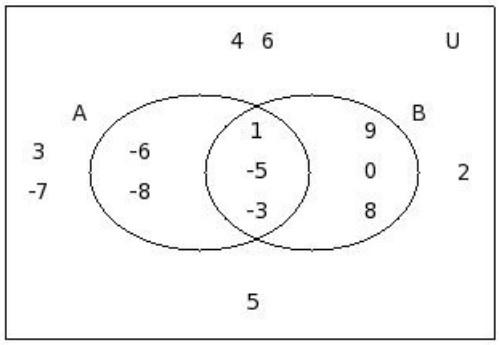
8. Find B



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

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

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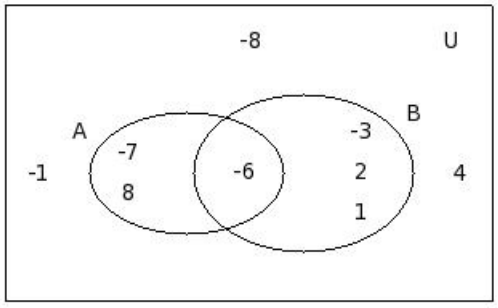
9. Find A ∪ B



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

(iv) {-7,8,1,2,-3} (v) {1,-6,-3,-7,8}

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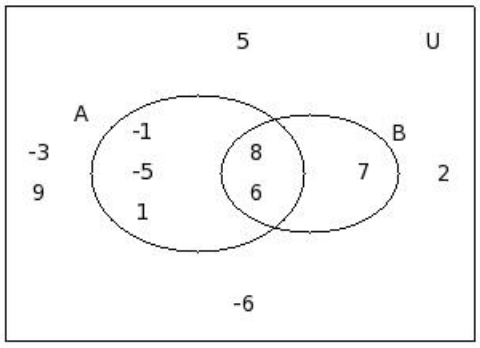
10. Find A ∩ B



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

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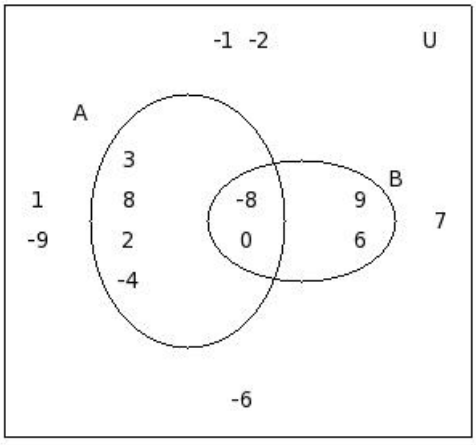
11. Find A − B



(i) {-4,8,2,1} (ii) {8,3,-4} (iii) {2,3,8,-4}

(iv) {} (v) {7,2,8,-4,3}

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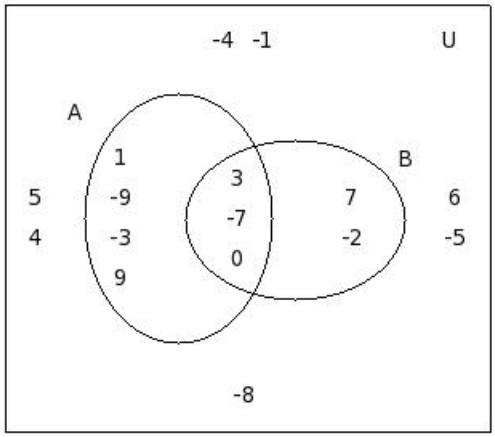
12. Find B − A



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

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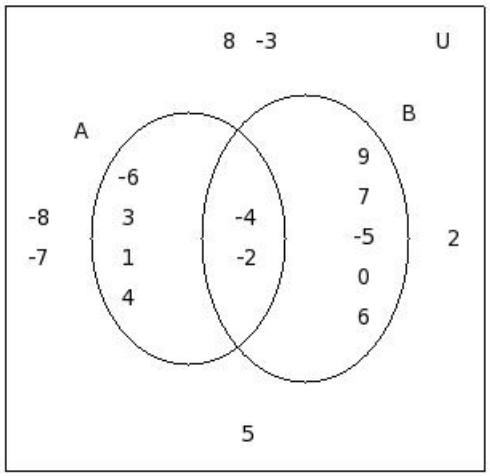
13. Find (A − B) ∪ (B − A)



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

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

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

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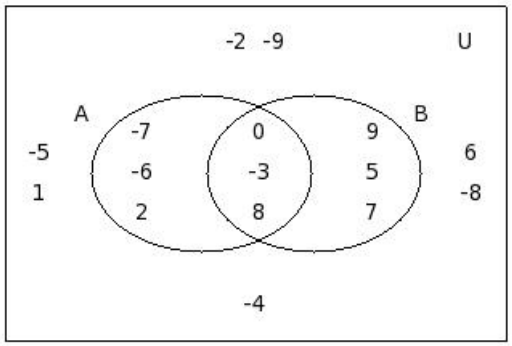
14. Find (A ∪ B) − (A ∩ B)



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

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

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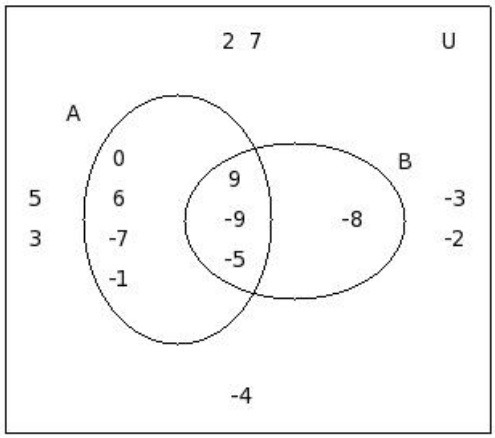
15. Find n(A)



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

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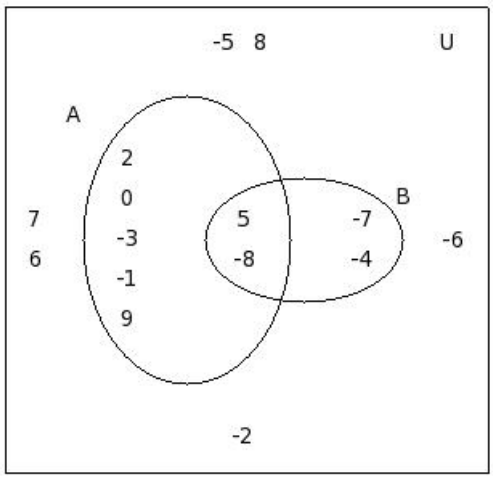
16. Find n(B)



(i) 3 (ii) 6 (iii) 5 (iv) 4 (v) 1

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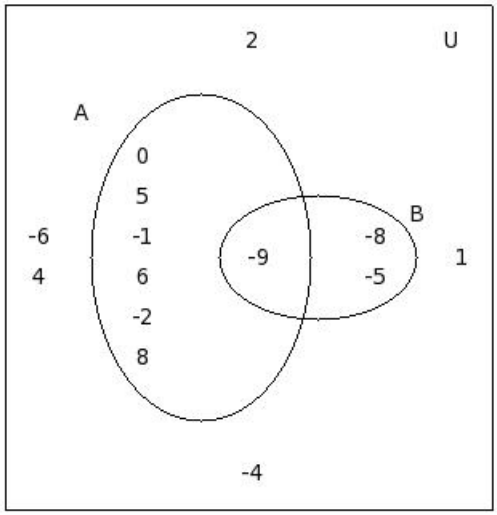
17. Find n(A ∪ B)



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

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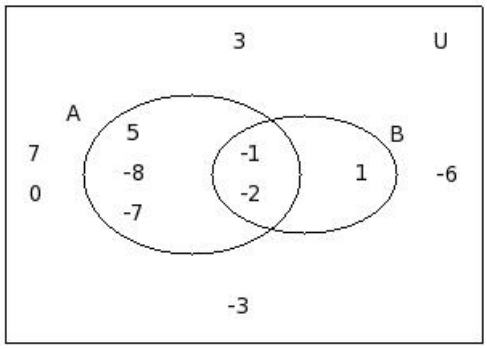
18. Find n(A ∩ B)



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

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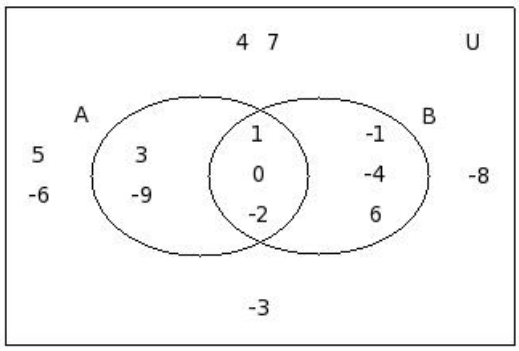
19. Find n(A − B)



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

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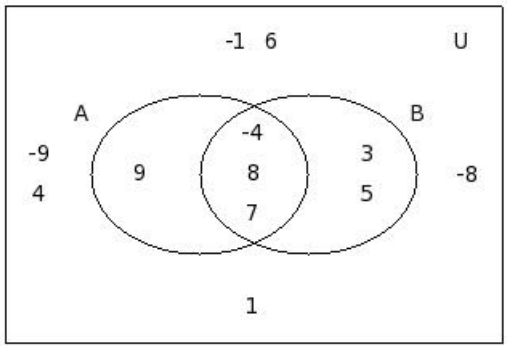
20. Find n(B − A)



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

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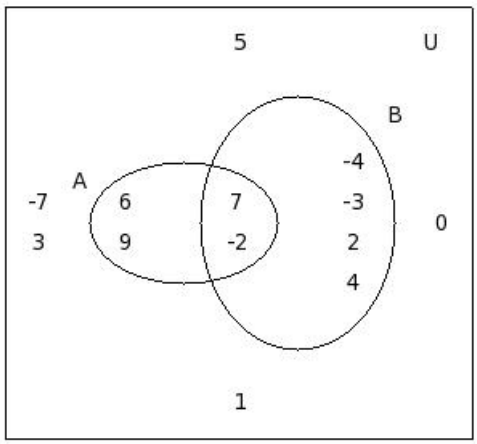
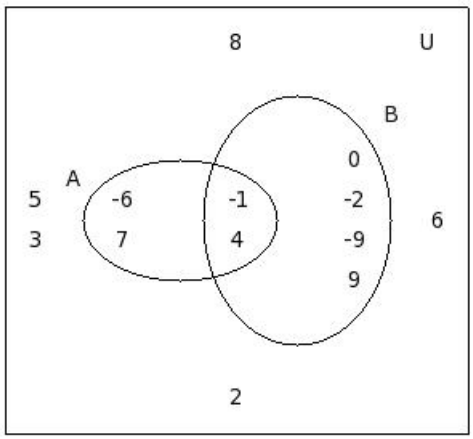
21. Find n((A − B) ∪ (B − A))



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

22. Find n((A ∪ B) − (A ∩ B))



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

Assignment Key

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