

EduSahara™ Learning Center Assignment

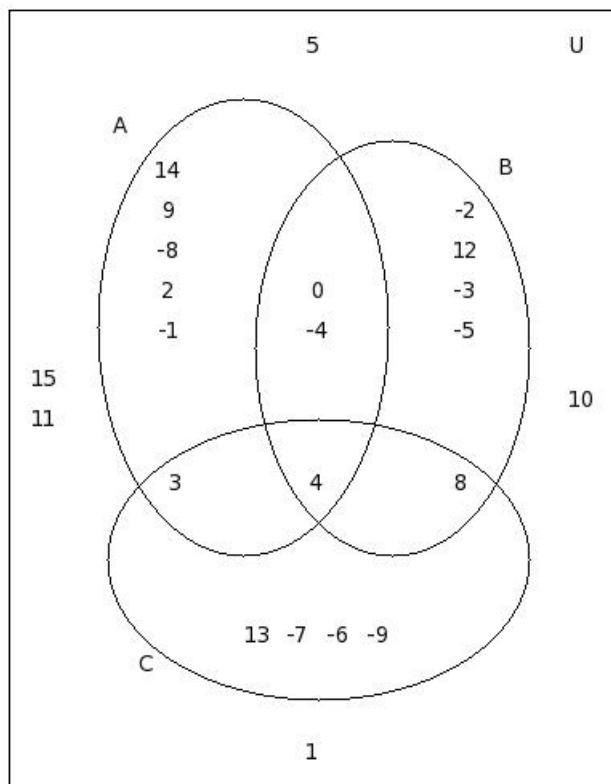
Grade : Class VIII, ICSE

Chapter : Sets

Name : Set Complement Problems

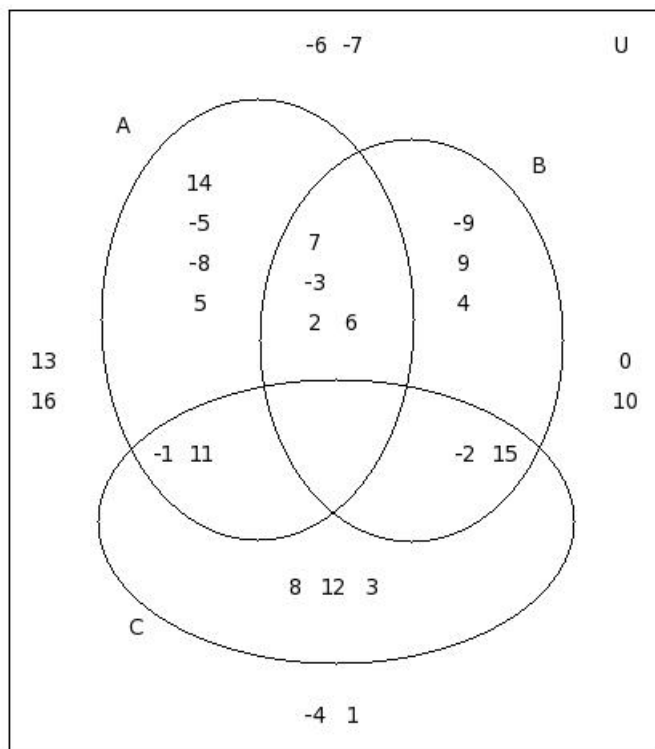
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1. Find $(B \cup C)'$



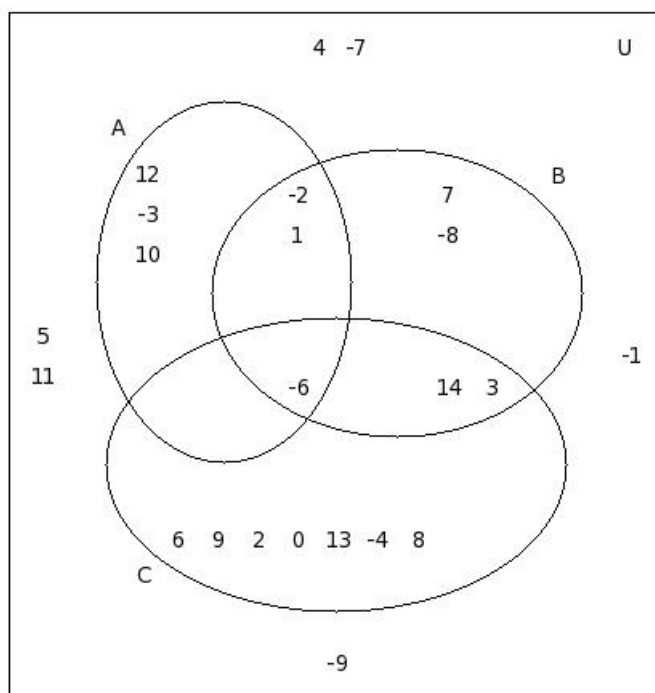
- (i) $\{-8, 14, 5, 11, 9, 1, 2, 15, 10\}$ (ii) $\{-8, 14, 5, 11, 9, 1, 2, 15, -1, 10\}$
 (iii) $\{-8, 14, 5, 11, 9, 1, 15, -1, 10, -5\}$ (iv) $\{-8, 14, 5, 11, 9, 1, 2, 15, -1, 3\}$
 (v) $\{-8, 14, 5, 11, 9, 1, 2, 15, -1, 10, -5\}$

2. Find $(C \cup A)'$



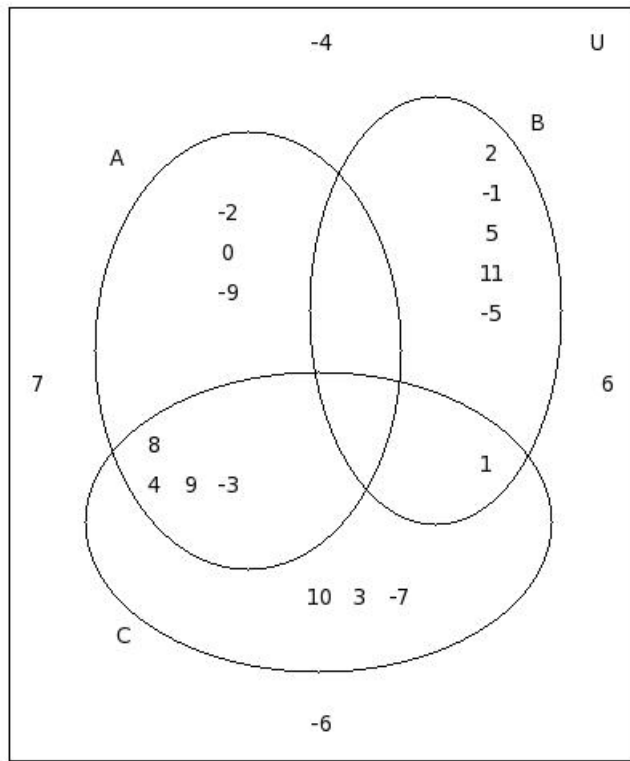
- (i) $\{0, -4, 13, -7, -9, -6, 1, 16, 10, 4, 9, 8\}$
 (ii) $\{0, -4, 13, -7, -9, -6, 1, 16, 4, 9\}$
 (iii) $\{0, -4, -7, -9, -6, 1, 16, 10, 4, 9, 11\}$
 (iv) $\{0, -4, 13, -7, -9, -6, 1, 16, 4, 9, 8\}$
 (v) $\{0, -4, 13, -7, -9, -6, 1, 16, 10, 4, 9\}$

3. Find $(A \cup B \cup C)'$



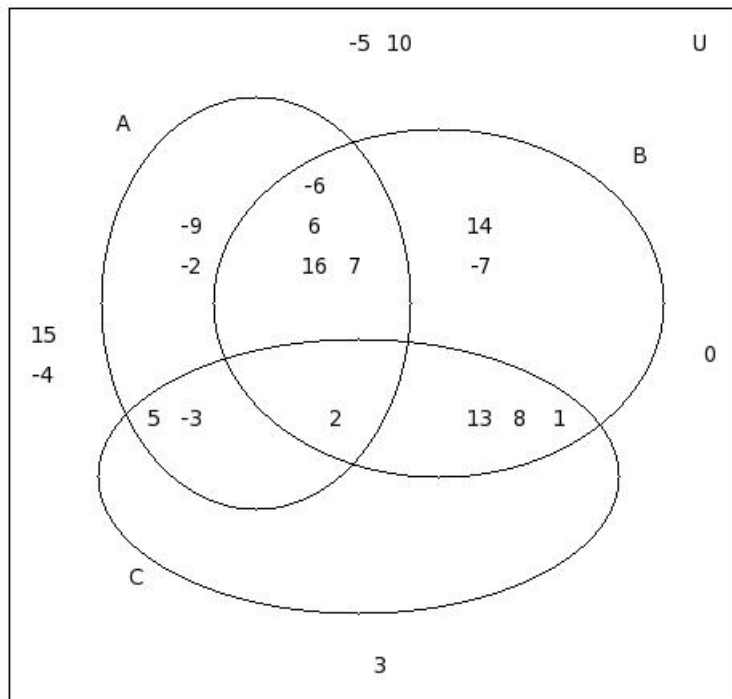
- (i) $\{5, -7, -9, 11, 4, 8\}$ (ii) $\{-1, 5, -7, 11, 4, -8\}$ (iii) $\{-1, 5, -7, -9, 11, 4, -8\}$
 (iv) $\{-1, 5, -7, 11, 4\}$ (v) $\{-1, 5, -7, -9, 11, 4\}$
-

4. Find $(A \cap B)'$



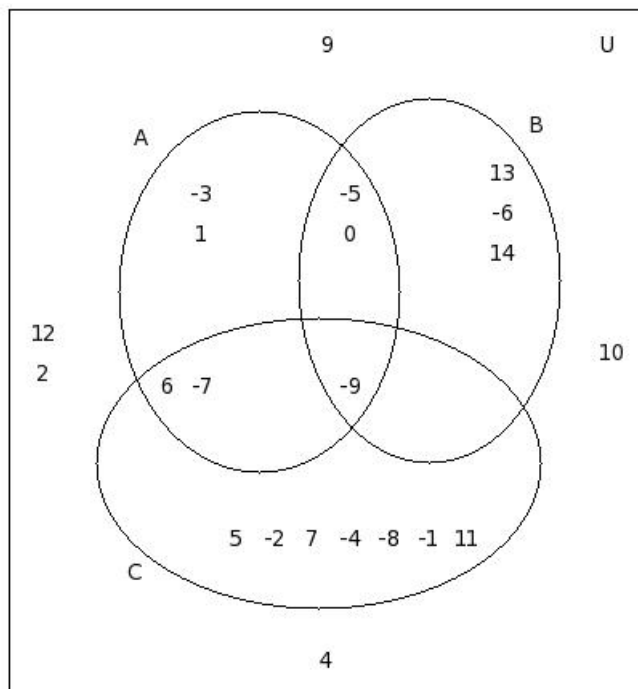
- (i) $\{10, -5, 9, 5, 0, 11, -2, -7, 2, 8, 7, -3, -9, 4, -6, 6, 3, -4, 1, -1\}$
 (ii) $\{10, -5, 9, 5, 0, 11, -2, -7, 2, 8, 7, -3, -9, 4, -6, 6, 3, 1, -1\}$
 (iii) $\{\}$
 (iv) $\{10, -5, 9, 5, 0, 11, -2, -7, 2, 8, 7, -3, -9, 4, -6, 6, 3, -4, 1\}$
 (v) $\{10, 9, 5, 0, 11, -2, -7, 2, 8, 7, -3, -9, 4,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

5. Find $(B \cap C)'$



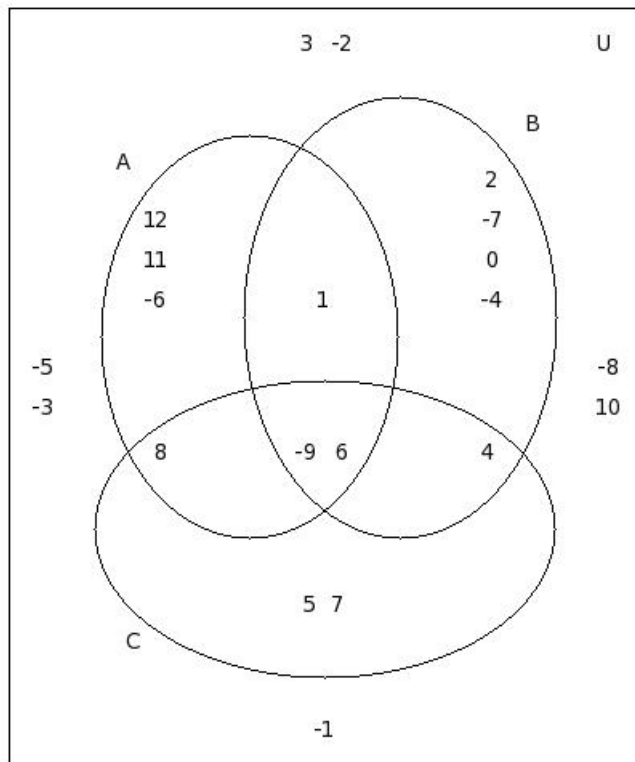
- (i) $\{6, -4, -6, -7, -3, 14, 10, 7, -9, -2, 0, 5, 16, 3, -5, 15\}$
 (ii) $\{6, -4, -6, -7, -3, 14, 7, -9, -2, 0, 5, 16, 3, -5, 15, 2\}$
 (iii) $\{6, -4, -6, -7, -3, 14, 10, 7, -9, -2, 5, 16, 3, -5, 15\}$
 (iv) $\{6, -4, -6, -7, -3, 14, 10, 7, -9, -2, 0, 5, 3, -5, 15, 8\}$
 (v) $\{6, -4, -6, -7, -3, 14, 10, 7, -9, -2, 0, 5, 16, 3, -5, 15, 8\}$

6. Find $(C \cap A)'$



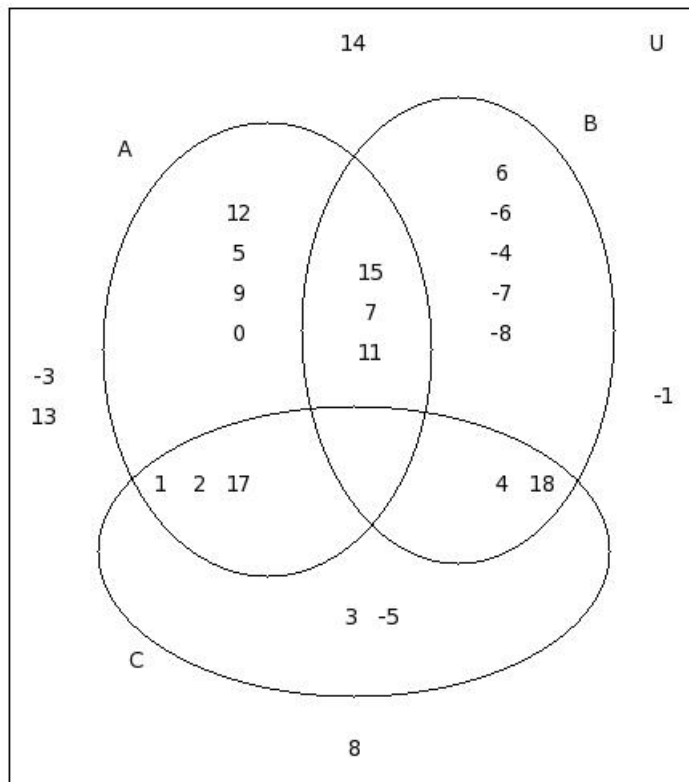
- (i) $\{14,0,-2,1,12,-6,-5,2,13,7,-8,5,-3,11,10,-1,4,-4,6\}$
- (ii) $\{14,0,-2,1,12,-6,-5,2,13,7,-8,5,-3,11,10,9,-1,-4,-9\}$
- (iii) $\{14,0,-2,1,12,-6,-5,2,13,7,-8,5,-3,11,10,9,-1,4,-4,6\}$
- (iv) $\{14,0,-2,1,12,-6,-5,2,13,7,-8,5,-3,11,10,9,-1,-4\}$
- (v) $\{14,0,-2,1,12,-6,-5,2,13,7,-8,5,-3,11,10,9,-1,4,-4\}$

7. Find $(A \cap B \cap C)'$



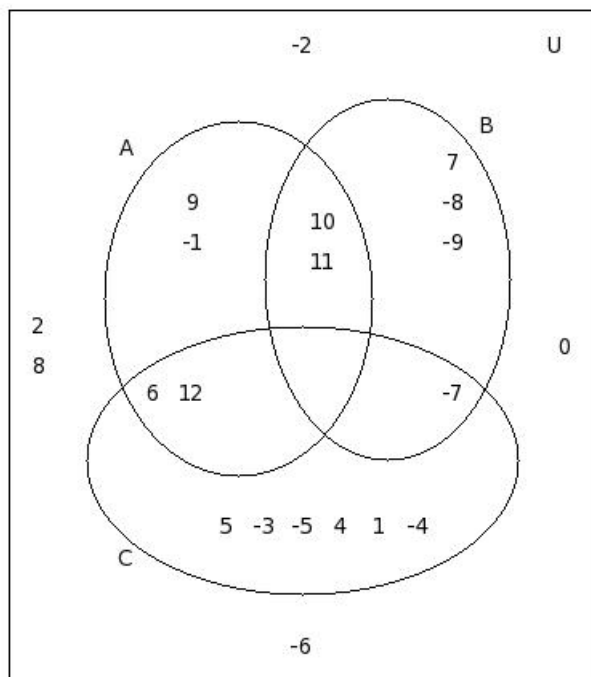
- (i) $\{-5,8,-6,5,-8,12,-7,2,7,-4,1,-3,11,-1,10,-2,0,3,4,6\}$
- (ii) $\{-5,-6,5,-8,12,-7,2,7,-4,1,-3,11,-1,10,-2,0,3,4,-9\}$
- (iii) $\{-5,8,-6,5,-8,12,-7,2,7,-4,1,-3,11,-1,10,-2,0,3,4\}$
- (iv) $\{-5,8,-6,5,-8,12,-7,7,-4,1,-3,11,-1,10,-2,0,3,4\}$
- (v) $\{-5,8,5,-8,12,-7,2,7,-4,1,-3,11,-1,10,-2,0,3,4,6\}$

8. Find $(A - (A \cap (B \cap C)))'$



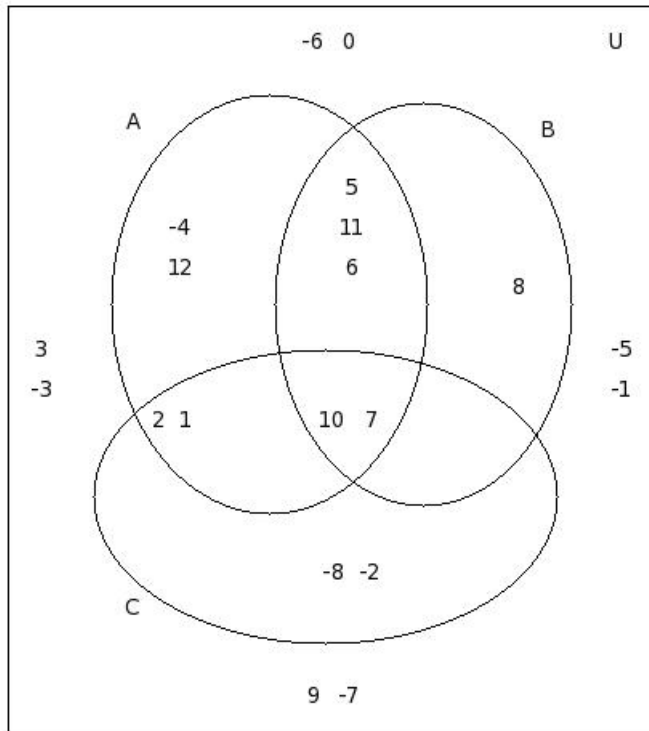
- (i) $\{-3, -6, 18, 6, -1, 3, -4, 13, 14, -7, -8, 8, -5, 2\}$
 (ii) $\{-3, -6, 18, 6, -1, 3, -4, 13, 14, -7, -8, 8, -5\}$
 (iii) $\{-3, -6, 18, 4, 6, -1, 3, -4, 13, 14, -7, -8, 8, -5\}$
 (iv) $\{-3, -6, 4, 6, -1, 3, -4, 13, 14, -7, -8, 8, -5, 0\}$
 (v) $\{-3, -6, 18, 4, 6, -1, 3, -4, 13, 14, -7, -8,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

9. Find $(B - (A \cap (B \cap C)))'$



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

10. Find $(C - (A \cap (B \cap C)))'$



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

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

11. $A = \{-5,8,0,11,10,3,14,5,7\}$, $B = \{-3,4,0,13,-2,11\}$,

$C = \{0,-3,14,7,-5,1,3,9\}$, find A'

- (i) $\{4,-8,-3,-9,6,13,-6,-4,9,-1,1,2\}$
- (ii) $\{4,-8,-3,-9,-2,6,13,-6,-4,-1,1,2\}$
- (iii) $\{4,-8,-3,-9,-2,6,13,-6,-4,9,-1,1,2,10\}$
- (iv) $\{4,-8,-3,-9,-2,6,13,-6,-4,9,-1,1,2\}$
- (v) $\{4,-8,-3,-9,6,13,-6,-4,9,-1,1,2,10\}$

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

12. $A = \{1, 0, 10, 7, 4, 12, 15, 8, -3\}$, $B = \{-9, 12, 0, 11, 2, -1, 10, 6, 8\}$,
 $C = \{14, -9, 8, -3, 3, 15\}$, find B'

- (i) $\{-3, -8, -6, 4, 7, 1, -2, 13, 15, 14\}$
 - (ii) $\{-3, -8, -6, 3, 4, 7, 1, -2, 15, 14\}$
 - (iii) $\{-3, -8, -6, 3, 4, 7, 1, -2, 13, 15, 14, 12\}$
 - (iv) $\{-3, -8, -6, 3, 4, 7, 1, -2, 13, 15, 14\}$
 - (v) $\{-3, -8, -6, 4, 7, 1, -2, 13, 15, 14, 12\}$
-

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

13. $A = \{14, 5, -3, -5, 13, -8\}$, $B = \{-5, 6, 8, 1, 12, -9, -2, 10, 11\}$,
 $C = \{-3, 11, 12, 5, 10, 9, -8, -7, -6\}$, find C'

- (i) $\{14, -5, -1, 8, 4, 1, 13, 3, 6, -9, 7\}$
 - (ii) $\{14, -2, -5, -1, 8, 4, 1, 13, 3, 6, -9, 7, -7\}$
 - (iii) $\{14, -5, -1, 8, 4, 1, 13, 3, 6, -9, 7, -7\}$
 - (iv) $\{14, -2, -5, -1, 8, 4, 1, 13, 3, 6, -9, 7\}$
 - (v) $\{14, -2, -1, 8, 4, 1, 13, 3, 6, -9, 7\}$
-

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

14. $A = \{15, 8, 14, 2, -2, 13, 6, -1, 17\}$, $B = \{-1, 3, 8, 2, -3, -8, 17\}$,
 $C = \{0, -9, 3, 17, -5, 11, 10, 14, -6, 8\}$, find $(A \cup B)'$

- (i) $\{11, 5, 1, 10, -6, 12, -9, -5, 16\}$ (ii) $\{11, 5, 0, 1, 10, -6, 12, -5, 16\}$
 - (iii) $\{11, 5, 0, 1, 10, -6, 12, -9, -5, 16\}$ (iv) $\{11, 5, 0, 1, 10, -6, 12, -9, -5, 16, -2\}$
 - (v) $\{11, 5, 1, 10, -6, 12, -9, -5, 16, -2\}$
-

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

15. $A = \{7, 9, 4, -5, -4, 5\}$, $B = \{0, 2, 9, -4, -8, -7\}$,
 $C = \{-5, -7, -4, 3, -3, 2\}$, find $(B \cup C)'$

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

16. $A = \{15, 6, 1, -1, -7, -9\}$, $B = \{0, -2, 1, -3, 14, -7, 15, 13, 4, 6\}$,
 $C = \{2, -6, -3, -9, 11, -4, 8, -2\}$, find $(C \cup A)'$

- (i) $\{4,12,7,14,-5,3,0,13,-3\}$ (ii) $\{4,12,7,14,-5,3,0,13\}$
 (iii) $\{4,12,7,14,-5,3,13,-6\}$ (iv) $\{12,7,14,-5,3,0,13,-3\}$
 (v) $\{12,7,14,-5,3,0,13\}$
-

If $\mu = \{1,-7,15,14,0,3,7,5,11,12,-1,-6,16,17,-9,13,18,4,-2,2,-8,9,-5,8,-3,10\}$,

17. $A = \{1,-7,15,14,0,3,7\}$, $B = \{7,5,14,11,12,3,-1,-6,16,17\}$,
 $C = \{-9,17,13,-7,16,18,15,5,7,11\}$, find $(A \cup B \cup C)'$

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

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

18. $A = \{10,12,3,4,-9,0,16,7,-5\}$, $B = \{10,16,7,-2,-5,13,11\}$,
 $C = \{13,11,10,14,4,15,16,-1,12\}$, find $(A \cap B)'$

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

If $\mu = \{17,4,3,9,-5,16,1,-8,0,7,20,-4,13,6,10,19,2,12,-7,-3,8,-6,18,5,-2\}$,

19. $A = \{17,4,3,9,-5,16,1,-8,0\}$, $B = \{1,7,20,-4,13,6,10,19,2,12\}$,
 $C = \{13,16,19,4,-8,-7,-4,2,-3,8\}$, find $(B \cap C)'$

- (i) $\{-5,6,0,1,17,20,18,-2,-3,9,7,4,16,12,-7,10,8,3,-8,5,-6\}$
 (ii) $\{-5,6,0,1,17,20,18,-2,-3,9,7,16,12,-7,10,8,3,-8,5,-6\}$
 (iii) $\{-5,6,0,1,17,20,18,-2,-3,9,7,4,16,12,-7,10,8,3,-8,5,-6,2\}$
 (iv) $\{-5,6,0,1,17,20,18,-2,-3,9,7,4,16,12,-7,10,8,-8,5,-6,2\}$
 (v) $\{-5,6,0,1,17,20,18,-2,-3,9,7,4,16,12,-7,10,8,-8,5,-6\}$
-

If $\mu = \{-8,1,-1,11,3,15,-3,18,4,2,16,9,12,10,14,6,-5,-9,-6,7,8,-2,5,-4,13,17,19,-7\}$,

20. $A = \{-8,1,-1,11,3,15,-3,18,4,2\}$, $B = \{1,15,16,9,12,11,10,-3,14,6\}$,
 $C = \{3,10,-5,-1,-3,12,18,-8\}$, find $(C \cap A)'$

- (i) $\{1,-7,19,11,-5,6,9,-6,14,4,-2,16,5,7,8,2,-9,-4,15,17,13,12\}$
 (ii) $\{1,-7,19,11,-5,6,-6,10,14,4,-2,16,5,7,8,2,-9,-4,15,17,13,12,-1\}$
 (iii) $\{1,-7,19,11,-5,6,-6,10,14,4,-2,16,5,7,8,2,-9,-4,15,17,13,12\}$
 (iv) $\{1,-7,19,11,-5,6,9,-6,10,14,4,-2,16,5,7,8,2,-9,-4,15,17,13,12\}$

(v) $\{1, -7, 19, 11, -5, 6, 9, -6, 10, 14, 4, -2, 16, 5, 7, 8, 2, -9, -4, 15, 17, 13, 12, -1\}$

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

21. $A = \{9, -2, 8, 5, 13, 7, 1\}$, $B = \{14, -8, -3, 7, 13, 5, 15, 11, 16\}$,

$C = \{13, 8, 15, 9, 4, -2, -4, 7, 12, -5\}$, find $(A \cap B \cap C)'$

(i) $\{6, 14, 3, -3, 11, 5, -2, 8, 9, 16, 15, -4, 1, 12, -7, 4, 10, -8, -9, -5\}$

(ii) $\{6, 14, 0, 3, -3, 11, 5, -2, 8, 9, 16, 15, -4, 1, 12, -7, 4, 10, -8, -9, -5, 13\}$

(iii) $\{6, 14, 0, 3, -3, 11, 5, -2, 8, 9, 16, 15, -4, 1, 12, -7, 4, 10, -8, -9, 13\}$

(iv) $\{6, 14, 0, 3, -3, 11, 5, -2, 8, 9, 16, 15, -4, 1, 12, -7, 4, 10, -8, -9, -5\}$

(v) $\{6, 14, 0, 3, -3, 11, 5, -2, 8, 9, 16, 15, -4, 1, 12, -7, 4, 10, -8, -9\}$

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

22. $A = \{-7, 13, 3, 12, 10, -4, 14, -8\}$, $B = \{-6, 14, 10, 9, -1, 13, 12\}$,

$C = \{15, 12, 10, 0, -4, 4, -9, -2, -6\}$, find $(A - (A \cap (B \cap C)))'$

(i) $\{12, 1, 7, 15, -9, -6, 9, -2, -1, 6, 10, 0, 4, 11, 2\}$

(ii) $\{12, 1, 7, 15, -9, -6, 9, -2, -1, 6, 10, 0, 4, 11, 2, 14\}$

(iii) $\{12, 1, 7, 15, -9, -6, 9, -2, -1, 6, 10, 0, 11, 2, 14\}$

(iv) $\{12, 1, 7, 15, -9, -6, 9, -2, -1, 6, 10, 0, 11, 2\}$

(v) $\{12, 1, 7, 15, -9, 9, -2, -1, 6, 10, 0, 4, 11, 2\}$

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

23. $A = \{6, 0, -8, -9, 1, -1, 7, 8, -7, 12\}$, $B = \{1, 11, 3, -9, 5, 14\}$,

$C = \{3, -1, -2, 9, 7, -5, 6, 14, 10\}$, find $(B - (A \cap (B \cap C)))'$

(i) $\{6, 7, 9, 16, 0, 12, 13, -2, 10, -1, -6, -7, 8, -8, 14\}$

(ii) $\{6, 7, -5, 9, 16, 0, 12, 13, -2, 10, -1, -6, -7, 8, -8\}$

(iii) $\{6, 7, -5, 9, 16, 0, 12, 13, -2, 10, -1, -7, 8, -8\}$

(iv) $\{6, 7, -5, 9, 16, 0, 12, 13, -2, 10, -1, -6, -7, 8, -8, 14\}$

(v) $\{6, 7, 9, 16, 0, 12, 13, -2, 10, -1, -6, -7, 8, -8\}$

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

24. $A = \{-2, -8, 14, 6, 10, 5, 9, 1, -3, 2\}$, $B = \{10, 0, -1, -3, 1, -6\}$,

$C = \{8, 3, 16, -2, 10, 2, 7, 0, -3\}$, find $(C - (A \cap (B \cap C)))'$

(i) $\{4, -3, 6, 10, 9, -7, 12, -1, 14, 13, 15, -6, -9, 5, 1, -4\}$

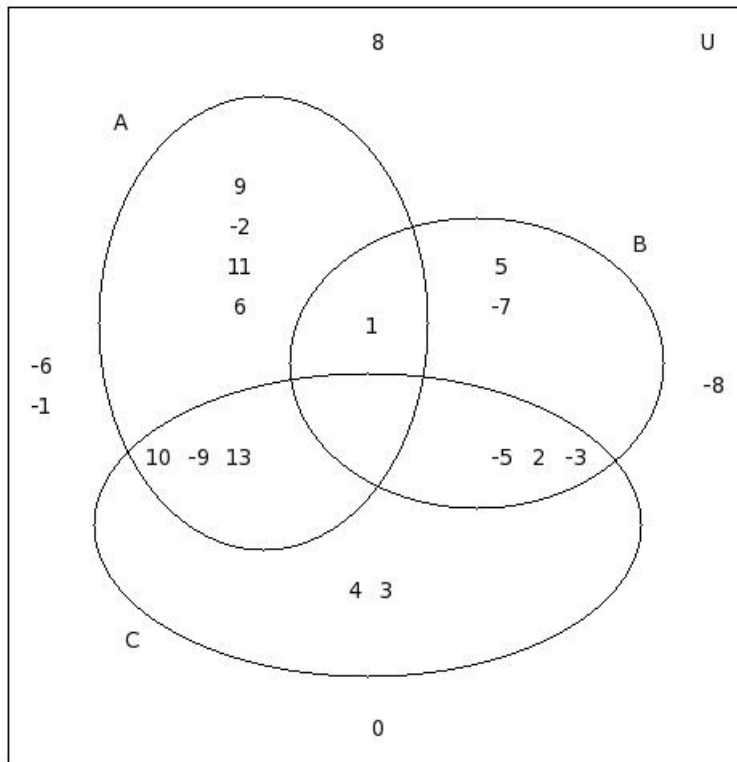
(ii) $\{4, -3, 6, 10, 9, -7, -8, 12, -1, 14, 13, 15, -6, -9, 5, -4\}$

(iii) $\{4, -3, 6, 10, 9, -7, -8, 12, -1, 14, 13, 15, -6, -9, 5, -4, -2\}$

(iv) $\{4, -3, 6, 10, 9, -7, -8, 12, -1, 14, 13, 15, -6, -9, 5, 1, -4, -2\}$

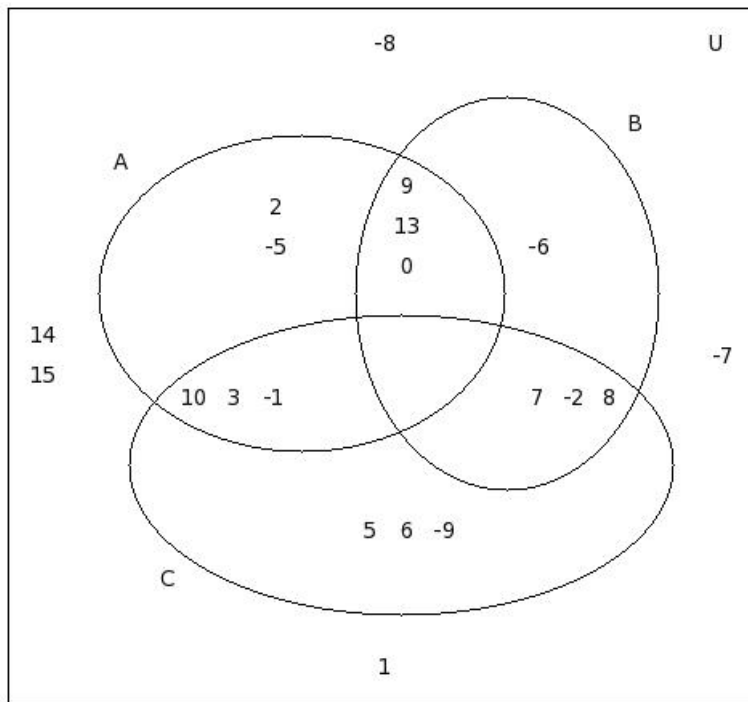
(v) $\{4, -3, 6, 10, 9, -7, -8, 12, -1, 14, 13, 15, -6, -9, 5, 1, -4\}$

25. Find A'



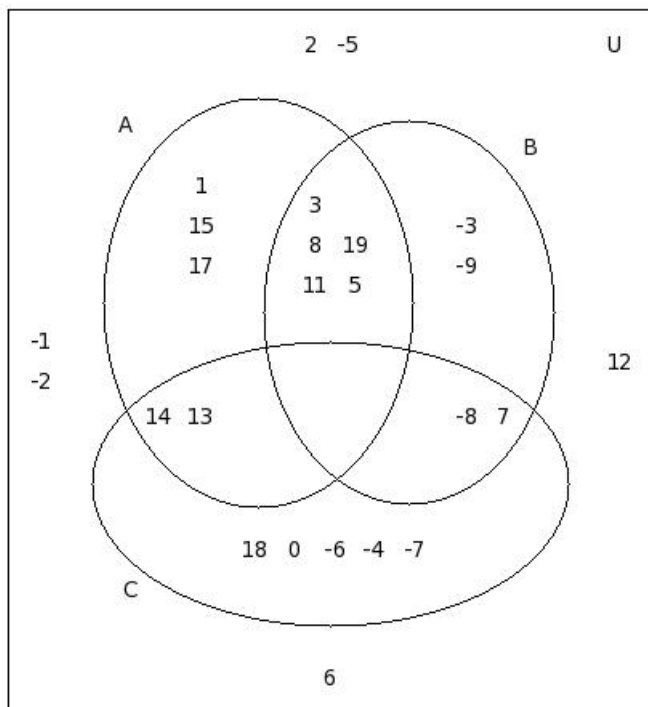
- (i) $\{-5, 2, -3, -6, 3, 0, 4, -1, 8, -7, 5, 10\}$
- (ii) $\{-5, -3, -6, 3, 0, 4, -1, 8, -8, -7, 5, 13\}$
- (iii) $\{-5, 2, -3, -6, 3, 0, 4, -1, 8, -8, -7, 5, 13\}$
- (iv) $\{-5, 2, -3, -6, 3, 0, 4, -1, 8, -8, -7, 5\}$
- (v) $\{-5, 2, -6, 3, 0, 4, -1, 8, -8, -7, 5\}$

26. Find B'



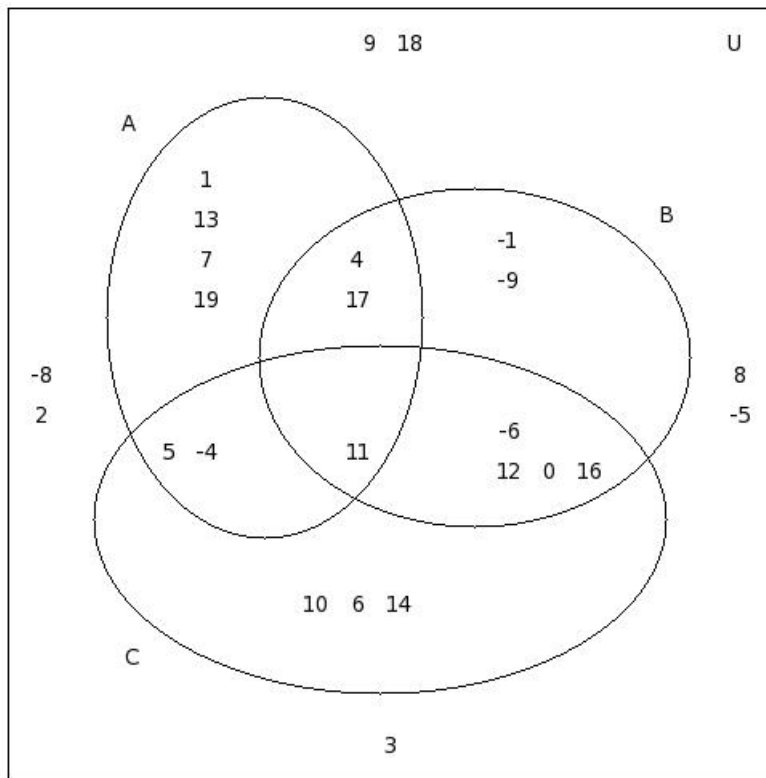
- (i) $\{-1, 1, 2, 3, 5, 10, -9, -5, 14, -8, -7, 15, 8\}$
(ii) $\{-1, 1, 2, 3, 5, 10, -9, -5, 14, -8, -7, 15\}$
(iii) $\{-1, 1, 2, 3, 6, 5, 10, -9, -5, 14, -8, -7, 15, 7\}$
(iv) $\{-1, 1, 2, 3, 6, 5, 10, -9, -5, 14, -8, -7, 7\}$
(v) $\{-1, 1, 2, 3, 6, 5, 10, -9, -5, 14, -8, -7, 15\}$

27. Find C'



- (i) $\{1, 19, 17, -5, -9, -1, 15, -3, 3, -2, 5, 8, 2, 12, 6, -6\}$
- (ii) $\{1, 19, 17, -5, -9, -1, 15, 11, -3, 3, -2, 5, 8, 2, 12, 6\}$
- (iii) $\{1, 19, 17, -5, -9, -1, 15, 11, -3, 3, -2, 5, 2, 12, 6\}$
- (iv) $\{1, 19, 17, -5, -9, -1, 15, 11, -3, -2, 5, 8, 2, 12, 6, -4\}$
- (v) $\{1, 19, 17, -5, -9, -1, 15, 11, -3, 3, -2, 5, 8, 2, 12, 6, -4\}$

28. Find $(A \cup B)'$



- (i) $\{6, 3, 10, 8, 2, 18, 9, 14, -5, 7\}$
- (ii) $\{6, 3, 10, 8, -8, 2, 18, 9, 14, -5, 7\}$
- (iii) $\{6, 3, 10, 8, -8, 18, 9, 14, -5\}$
- (iv) $\{6, 3, 10, 8, -8, 2, 18, 9, 14, -5\}$
- (v) $\{6, 3, 8, -8, 2, 18, 9, 14, -5, -9\}$

Assignment Key

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