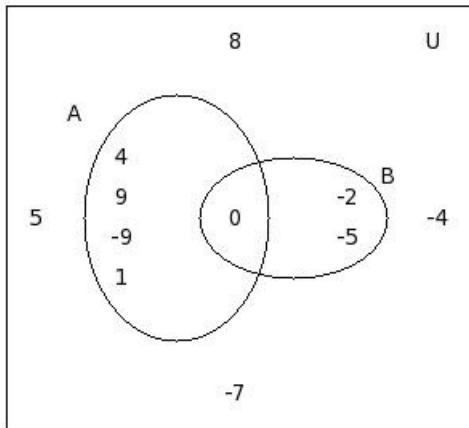




1. Find A



- (i) $\{-9,0,1,4,9\}$ (ii) $\{-9,4,1,9\}$ (iii) $\{-7,0,-9,9,1\}$ (iv) $\{-9,0,4,1,9,5\}$ (v) $\{\}$

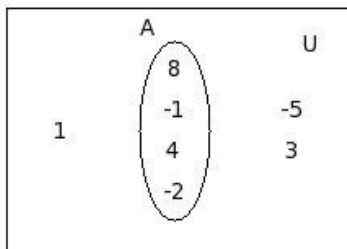
2. Which of the following is a singleton set?

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

3. Which of the following is 'subset or equal to' symbol?

- (i) \notin (ii) \leftrightarrow (iii) \subseteq (iv) \cup (v) \subset

4. Find $n(A \cap \emptyset)$



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

5. If $A \subset B$, then which of the following are true?

- a) $B - A = A$
 b) $A - B = \emptyset$
 c) $B - A = B$
 d) $A \cup B = \emptyset$
 e) $A - B = B$

- (i) $\{d,e,b\}$ (ii) $\{b\}$ (iii) $\{a,b\}$ (iv) $\{c,b\}$

6. Which of the following is 'union' symbol?

- (i) \subseteq (ii) \notin (iii) \supseteq (iv) \cup (v) \subset

7. If $A = \{-9,-5\}$, then $n(A) = ?$

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

8. Which of the following is not a superset of $A = \{1,9,6\}$?

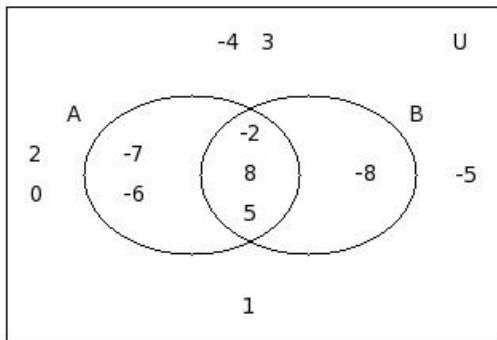
- (i) $\{9,5,1,6\}$ (ii) $\{9,4,1\}$ (iii) $\{1,4,9,6\}$ (iv) $\{6,9,1\}$ (v) $\{8,1,6,9\}$

9. If $A \subset B$, then which of the following are true?

- a) $A \cap B = B$
b) $A \cup B = A$
c) $A \cap B = A$
d) $A \cup B = B$
e) $A \cup B = \emptyset$

- (i) $\{b,d,c\}$ (ii) $\{c,d\}$ (iii) $\{a,c\}$ (iv) $\{b,d\}$ (v) $\{e,a,c\}$

10. Find $A \cup B$



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

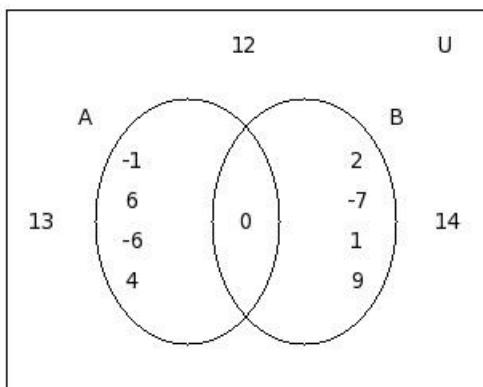
11. Which of the following symbols represent the set of Natural numbers ?

- (i) W (ii) N (iii) R (iv) Q' (v) Q

12. Which of the following is a subset of $A = \{6,8,11,9,10,2,15,0\}$?

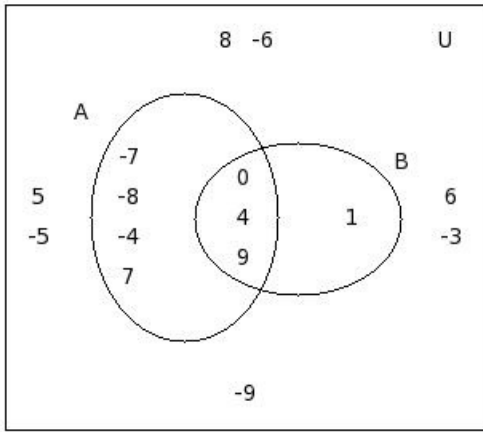
- (i) $\{0,6,5,9,11,8,2,10\}$ (ii) $\{0,7,6,10,8,13,11,9\}$ (iii) $\{0,9,11,10,6,8\}$ (iv) $\{9,10,8,7,6,11,0\}$ (v) $\{7,5,13\}$

13. $A - B =$



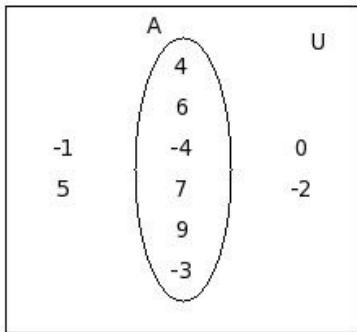
- (i) $\{-1,-6,4,6\}$ (ii) $\{-6,-1,4,13,6\}$ (iii) $\{8,-6,6,4,-1\}$ (iv) $\{6,-6,-1\}$ (v) $\{2,9,1,-7\}$

14. Find $n((A - B) \cup (B - A))$



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

15. Find $n(A \cap A)$



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

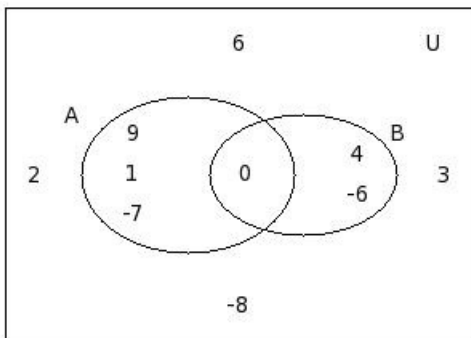
16. Which of the following symbols represent the set of Real numbers ?

- (i) Q (ii) Q' (iii) R (iv) N (v) W

17. If $\mu = \{7, 1, -1, 0, -5, 9, -4, -6, 8, -7\}$, $A = \{7, 1, -1, 0\}$ and $B = \{7, -1, -5\}$, find $A \cap B$

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

18. Find $n(A)$



- (i) 5 (ii) 3 (iii) 1 (iv) 4 (v) 7

19. If $A \subset B$, then which of the following are true?

- a) $A' = B$
 b) $A' \subset B$
 c) $B \subset A$
 d) $A = B$
 e) $B \supset A$

- (i) $\{c, d, e\}$ (ii) $\{a, e\}$ (iii) $\{e\}$ (iv) $\{b, e\}$

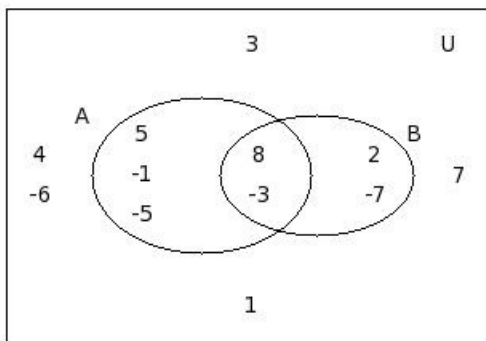
20. Which of the following elements does not belong to the set $\{5,10,2,4,6\}$?

- (i) 5 (ii) 8 (iii) 4 (iv) 6 (v) 2

21. Which of the following is 'intersection' symbol?

- (i) \leftrightarrow (ii) \notin (iii) \supseteq (iv) \nsubseteq (v) \cap

22. Find $(A - B) \cup (B - A)$



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

23. Which of the following are true?

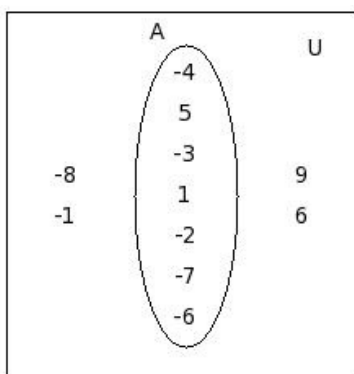
- a) $A \cup A' = \mu$
 b) $A \cap A' = A$
 c) $A \cup A' = A$
 d) $A \cap A' = \mu$
 e) $A \cap A' = \emptyset$
 f) $A \cup A' = \emptyset$

- (i) $\{a,e\}$ (ii) $\{b,e,a\}$ (iii) $\{b,a\}$ (iv) $\{d,f,a\}$ (v) $\{c,e\}$

24. If $\mu = \{2,6,7,1,-5,5,-4,3,-6,-2,8\}$, $A = \{2,6,7,1\}$ and $B = \{1,-5,5,6\}$, find $n(B)$

- (i) 5 (ii) 4 (iii) 7 (iv) 3 (v) 2

25. Find $A \cup \emptyset$



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

Assignment Key

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