EduSahara™ Assignment

Name : Set Complement

Chapter : Sets

Grade : ICSE Grade VII



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

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

2. If A = {2,-9,9,-7,-3} and μ = {2,-9,9,-7,-3,-1,-2,3}, find A ∪ A'

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

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

3. If A = {7,-4,4} and μ = {7,-4,4,3,0}, find A ∩ A'

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    (iv) {} (v) {-9,7,10,-7,5,-6,6,-1,-4,-5,2,1}

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

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

## Assignment Key

| | | | | | |
|---|---|---|---|---|---|
| 1) (i) | 2) (i) | 3) (iv) | 4) (iv) | 5) (ii) | 6) (iv) |
| 7) (i) | 8) (iv) | 9) (iii) | 10) (i) | 11) (iii) | |