



1. If $A = \{-3, 0, -7, -2, 9\}$ and $\mu = \{-3, 0, -7, -2, 9, -6, 4, 8\}$, find A'
(i) $\{-1, 8, 4, -6, 3\}$ (ii) $\{\}$ (iii) $\{-6, 4\}$ (iv) $\{4, 8, -6\}$ (v) $\{4, 6, -6\}$
2. If $A = \{-1, 1, -5, 4, 8\}$ and $\mu = \{-1, 1, -5, 4, 8, -3, 5, -8\}$, find $A \cup A'$
(i) $\{-3, 7, 4, 1, -5, -8, 5, -1\}$ (ii) $\{5, -8, -1, 0, -5, 8, 1, 4\}$ (iii) $\{8, 4, -8, 1, -1, 5, -3, -5\}$ (iv) $\{5, -8, -1, -3, 3, 8, 4, 2, -5, 1\}$
(v) $\{4, -8, -3, 5, 1, -1, -5\}$
3. If $A = \{5, -4, 4, -7, -6, 3\}$ and $\mu = \{5, -4, 4, -7, -6, 3, 0, 1, 7, -1\}$, find $A \cap A'$
(i) $\{\}$ (ii) $\{4\}$ (iii) $\{4, -1\}$ (iv) $\{2\}$ (v) $\{3\}$
4. If $A = \{-5, -2, 5\}$ and $\mu = \{-5, -2, 5, -6, -7\}$, find $(A')'$
(i) $\{-2, -5, 6\}$ (ii) $\{5, -2, -5\}$ (iii) $\{-2, -5, 0, 2, 5\}$ (iv) $\{-2, -1, 5\}$ (v) $\{-5, -2\}$
5. If $\mu = \{-3, -6, -9, 1, 0, 7, 9, 8, 6, -2, 5, 2\}$, $A = \{-3, -6, -9, 1\}$ and $B = \{0, 7, 9, 8, 1\}$, find A'
(i) $\{8, 5, 0, 2, 6, -2, 7, 9\}$ (ii) $\{\}$ (iii) $\{5, 9, 2, -2, 7, 8, 6\}$ (iv) $\{-2, 7, 9, 0, 6, 2, 5\}$
6. If $\mu = \{-6, 5, 6, -3, 3, -8, 0, -2, 9, 1, 2, -5\}$, $A = \{-6, 5, 6, -3\}$ and $B = \{3, -8, 0, 5, -6\}$, find B'
(i) $\{6, -5, 1, 9, -2, 2\}$ (ii) $\{\}$ (iii) $\{-5, 2, -3, 1, 6, 9\}$ (iv) $\{1, -5, 9, 2, 6, -2, -3\}$
7. If $\mu = \{5, 3, 4, -7, -5, 6, -2, 0, -8, 7, -3\}$, $A = \{5, 3, 4, -7, -5\}$ and $B = \{4, 5, -5\}$, find $(A \cup B)'$
(i) $\{-8, 0, 6, -3, 7\}$ (ii) $\{\}$ (iii) $\{-8, 7, -3, -2, 0, 6\}$
8. If $\mu = \{7, 6, -2, -6, -8, 3, 9, -1, 2, 4, 0, 5, -5, 8, 1\}$, $A = \{7, 6, -2, -6, -8, 3\}$ and $B = \{7, 9, -1, -2, 2\}$, find $(A \cap B)'$
(i) $\{5, -6, 4, -8, -5, 0, 6, 3, 8, 9, 1, 2\}$ (ii) $\{-8, -6, 9, -1, 0, 1, 2, 4, 6, 8, 3, 5\}$ (iii) $\{1, 5, 3, 9, 8, -6, 0, 4, 6, -5, -1, 2\}$ (iv) $\{\}$
(v) $\{-8, -6, 0, -1, 2, 4, 5, 6, 9, 3, -5, 1, 8\}$
9. If $\mu = \{-1, 9, 6, 1, -9, -6, 8, -5, -3, -2, 3, -8, -7, 4, 2, 5, 0\}$, $A = \{-1, 9, 6, 1, -9, -6\}$ and $B = \{8, -5, -6, 6, 1, -1, -3\}$, find $(A - B)'$
(i) $\{1, 0, 4, -7, -1, -5, -2, 6, 3, -6, 8, 5, -8, 2\}$ (ii) $\{\}$ (iii) $\{5, 0, 4, -8, -5, -7, 8, 3, 1, 2, -2, -6, -3, 6\}$
(iv) $\{5, 3, 2, -7, -5, -6, 0, 4, -1, -3, 6, 8, -2, 1, -8\}$ (v) $\{-2, -1, -7, 6, 2, 3, 8, -8, 0, -5, -3, 4, 5, -6\}$
10. If $\mu = \{-6, 6, 2, -5, 0, 4, -1, -7\}$, $A = \{-6, 6, 2\}$ and $B = \{6, -5, -6\}$, find $(B - A)'$
(i) $\{-6, -7, 0, -1, 2, 4, 6\}$ (ii) $\{-6, -1, 6, 0, -7, 4\}$ (iii) $\{-7, -1, 0, -6, 4, 2\}$ (iv) $\{\}$
11. If $\mu = \{6, -2, 5, -5, 4, -4, 9, -1, -8, -6\}$, $A = \{6, -2, 5\}$ and $B = \{-2, 5, -5, 4, -4\}$, find $((A - B) \cup (B - A))'$
(i) $\{\}$ (ii) $\{-2, -8, -1, -6, 9\}$ (iii) $\{9, -8, 5, -6, -1, -2\}$ (iv) $\{-1, -6, 9, 5, -8\}$

Assignment Key

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