



1. If $A = \{-8, 6, -7, 5, 8\}$ and $\mu = \{-8, 6, -7, 5, 8, 0, -6, -3\}$, find $A \cup \mu$
(i) $\{9, 6, 5, -8, -7\}$ (ii) $\{-7, 5, 8, 6\}$ (iii) $\{8, -6, -8, 5, 6\}$ (iv) $\{3, 2, 5, -8, 8, -7, 6\}$ (v) $\{8, -8, -7, 6, 5\}$
2. If $A = \{-4, -3, -6, 7\}$ and $\mu = \{-4, -3, -6, 7, -5, 6, -7\}$, find $A \cup \emptyset$
(i) $\{-6, -4, 7, -2\}$ (ii) $\{-6, -4, -3\}$ (iii) $\{\}$ (iv) $\{-3, 3, -4, 2, 7, -6\}$ (v) $\{-4, -6, -3, 7\}$
3. If $A = \{1, -7, 5, -2, -6\}$ and $\mu = \{1, -7, 5, -2, -6, 9, -1, -8\}$, find $A \cup \mu$
(i) $\{1, -2, 5, -7, -6, -1, 9, -12\}$ (ii) $\{-1, -6, 1, -8, -2, -7, 5, 9\}$ (iii) $\{9, -7, -1, -2, 1, -8, 5\}$ (iv) $\{5, 3, -8, 9, -7, -6, -2, -1, 1, 2\}$
(v) $\{9, 1, -6, -1, -3, -7, 5, -8\}$
4. If $A = \{-9, -4, -7\}$ and $\mu = \{-9, -4, -7, 8, -6\}$, find $A \cap \mu$
(i) $\{-9, -7, 1\}$ (ii) $\{-9, -4\}$ (iii) $\{-4, -9, -7\}$ (iv) $\{-4, -9, 5, 3, -7\}$ (v) $\{-3, -9, -7\}$
5. If $A = \{2, 5, -7\}$ and $\mu = \{2, 5, -7, 3, 0\}$, find $A \cap \emptyset$
(i) $\{1\}$ (ii) $\{1, 2\}$ (iii) $\{-1\}$ (iv) $\{\}$ (v) $\{4\}$
6. If $A = \{2, 9, -6, -3, -4, 5, 1\}$ and $\mu = \{2, 9, -6, -3, -4, 5, 1, 0, -7, -8, -5\}$, find $A \cap \mu$
(i) $\{9, -3, 1, -2, 5, 2, -6\}$ (ii) $\{-8, 1, 9, 5, 0, -2, -6\}$ (iii) $\{-3, 9, 2, 1, -4, -6, 5\}$ (iv) $\{5, 2, 4, -6, 1, 9, 0, -4, -3\}$
(v) $\{-4, 5, 2, -3, 9, -6\}$
7. If $A = \{-3, -4, 2, -9, -6, 9\}$ and $\mu = \{-3, -4, 2, -9, -6, 9, 7, -1, 4, -8\}$, find A'
(i) $\{-1, -8, 4, 0, 5, 7\}$ (ii) $\{-1, -8, 4, 7\}$ (iii) $\{7, -1, 4\}$ (iv) $\{7, 0, -8, 4\}$ (v) $\{-1, -17, 4, 9\}$
8. If $A = \{-1, -9, 0\}$ and $\mu = \{-1, -9, 0, 5, 2\}$, find $A \cup A'$
(i) $\{-9, -1, 5, 0, 1\}$ (ii) $\{2, 5, 0, 3, -1, -9, 4\}$ (iii) $\{-9, 0, -1, 5\}$ (iv) $\{-1, -4, 0, 4, 5\}$ (v) $\{0, 2, -9, 5, -1\}$
9. If $A = \{6, 8, 3\}$ and $\mu = \{6, 8, 3, -5, -8\}$, find $A \cap A'$
(i) $\{5, 0\}$ (ii) $\{5\}$ (iii) $\{\}$ (iv) $\{3\}$
10. If $A = \{1, 4, -4, 0, -9, -8, -6\}$ and $\mu = \{1, 4, -4, 0, -9, -8, -6, 2, 6, 8, -7\}$, find $(A)'$
(i) $\{-9, -6, -8, -4, 0, 4\}$ (ii) $\{-8, 3, -9, 4, -4, 2, 1, -6, 0\}$ (iii) $\{-4, -6, 1, 0, -1, -9, -8\}$ (iv) $\{-8, 1, 0, -4, -9, -6, 4\}$
(v) $\{-6, 4, -4, -8, 0, 1, -10\}$

Assignment Key

1) (v)

2) (v)

3) (ii)

4) (iii)

5) (iv)

6) (iii)

7) (ii)

8) (v)

9) (iii)

10) (iv)