

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Sets****Name : Set Complement****Licensed To : Teachers and Students for non-commercial use**

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

(iv) $\{\}$

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

(i) $\{\}$ (ii) $\{2, 9, -1, 5\}$ (iii) $\{-1, -3, 2, 9, 5\}$

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

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

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

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

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

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

11. If $\mu = \{3, -6, -1, 0, -9, -3, -8, 2, 6, -5, -7, 7, -2\}$,
 $A = \{3, -6, -1, 0, -9\}$ and $B = \{-3, 3, 0, -8, -1\}$, find $((A - B) \cup (B - A))'$

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

Assignment Key

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