Complement of a set

Let U = {0,1,2,3,4,5,6,7,8,9,10}

   A = {0,1,2,3,5,8}

   B = {0,2,4,6}

   C = {1,3,5,7}

1. A'

2. B'

3. C'

4. A ∩ B'

5. B ∪ C'

6. A' ∪ C

7. (A' ∩ C) ∪ B

8. (A ∪ B)'

Answers

1. A' = {4, 6, 7, 9, 10}
2. B' = {1, 3, 5, 7, 8, 9, 10}
3. C' = {0,2,4,6,8,9,10}
4. A ∩ B' = {1, 3, 5, 8}
5. B ∪ C' = {0, 2, 4, 6, 8, 9, 10}
6. A' ∪ C = {1, 3, 4, 5, 6, 7, 9, 10}
7. (A' ∩ C) ∪ B = {0, 2, 4, 6, 7}
8. (A ∪ B)' = {7, 9, 10}