

Math 8 HW # 2 Shraavan Shenoy

1.6

$$A = \{4, 3, 6, 7, 1, 9\}$$

$$B = \{5, 6, 8, 4\}$$

$$U = \{0, 1, \dots, 9, 10\}$$

1a. $\bar{A} = \{0, 2, 5, 8, 10\}$

b. $\bar{B} = \{0, 1, 2, 3, 7, 9, 10\}$

c. $A \cap \bar{A} = \{\} (\emptyset)$

d. $A \cup \bar{A} = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

e. $A - \bar{A} = A$

i. $\bar{A} \cap B = \{5, 8\}$

$\overline{\bar{A} \cap B} = \{0, 1, 2, 3, 4, 6, 7, 9, 10\}$

$A = \{0, 2, 4, 6, 8\}$

$B = \{1, 3, 5, 7\}$

$U = \{0, 1, 2, \dots, 8\}$

2a. $\bar{A} = \{1, 3, 5, 7\}$

b. $\bar{B} = \{0, 2, 4, 6, 8\}$

c. $A \cap \bar{A} = \{\}, \emptyset$

d. $A \cup \bar{A} = \{0, 1, 2, 3, 4, 5, 6, 7, 8\}$

e. $A - \bar{A} = \{0, 2, 4, 6, 8\}$

f. $A \cup B = U$

$\overline{A \cup B} = \{\}, \emptyset$

2.1

1. statement

2. statement

3. statement

4. not statement

5. statement

6. statement

7. statement

8. statement

9. not statement

10. statement

11. not statement

12. statement

13. statement

14. not statement

15. statement