

## Assignment#1# (Group Work)

1. Consider the following sets:

$$B = \{1, 2\}, \quad D = \{a, b\}, \quad C = B \cup \{a\}.$$

Find the following:

1.  $\bar{B} =$

2.  $\overline{\{a\}} =$

3.  $C \cap D =$

4.  $C - D =$

5.  $P(C) =$

6.  $|C| =$

2. Let  $R$  be the set of all real numbers,  $Q$  be the set of rational numbers,  $Q^c$  be the set of irrational numbers, and  $N$  be the set of all natural numbers

Find

•  $N \cap Q =$

•  $N \cup Q =$

•  $R - Q^c =$

•  $Q^c \cup Q =$

•  $Q^c \cap Q =$