## Worksheet 1 Solution

March 8, 2020

## Question 1

- a)  $A = \{ 2, 5 \}$  $A^c = \{1, 3, 4, 6\}$
- b)  $A^c = U \setminus A$
- c)  $A^c \cap B^c = \{ x \mid x \in U, x \le 0 \text{ and } x \ge 4 \}$   $A^c \cap B^c = \{ x \mid x \in U, x < 1 \text{ and } x > 2 \}$   $(A \cap B)^c = \{ x \mid x \in U, x < 1 \text{ and } x > 2 \}$  $(A \cup B)^c = \{ x \mid x \in U, x \le 0 \text{ and } x \ge 4 \}$