

Lecture 1

1. Sets are given $A = \{-2, -1, 0, 1, 2, 3, 5\}$, $B = \{0, 1, 2, 5\}$, $C = \{1, 2\}$. Calculate:

a) $A \cup B$

b) $A \cap B$

c) $A - B$

d) $B - A$

2. Sets are given $A = \langle -5; 3 \rangle$ a $B = \langle -4; 1 \rangle$. Calculate:

a) $A \cup B$

b) $A \cap B$

c) $A - B$

d) $B - A$

3. Complete the table:

set	max	min	sup	inf
$A = \langle -12; 7 \rangle$				
$B = (1; 3)$				
$C = \langle -2; \infty \rangle$				
R				
N				

7. Calculate

$$\sum_{n=1}^4 \frac{1}{n}$$

$$\prod_{n=1}^5 (n+1)$$