

MAT 511
Homework for week 1

(1) Section 1.1:

2 ac

3 bfj

6 df

10 abe

(2) Section 1.2:

1 gh

2 gh

5 de

8 adg

(3) Prove the distributive law:

$A \wedge (B \vee C)$ is equivalent to $(A \wedge B) \vee (A \wedge C)$

(4) Define the new binary logical operation NAND by $A \text{ NAND } B = \sim(A \wedge B)$.

Write the truth tables for:

$A \text{ NAND } A$

$(A \text{ NAND } B) \text{ NAND } (A \text{ NAND } B)$