

Lista 5

$$1) (B \wedge C) \vee (A \wedge \sim B \wedge C) \vee (\sim A \wedge \sim B \wedge C)$$

$$C \wedge (B \vee (A \wedge \sim B) \vee (\sim A \wedge \sim B))$$

$$C \wedge ((B \vee \sim B) \wedge (A \vee B) \vee (\sim A \wedge \sim B))$$

$$C \wedge ((V \wedge (A \vee B)) \vee (\sim A \wedge \sim B))$$

$$C \wedge ((A \vee B) \vee (\sim A \wedge \sim B))$$

$$C \wedge ((A \vee B) \vee \sim (A \vee B))$$

$$C \wedge (V)$$

$$C$$

$$2) (C \wedge (A \vee \sim B)) \vee (\sim C \wedge A) \vee ((C \vee B) \wedge \sim C)$$

$$(C \wedge (A \vee \sim B) \vee (\sim C \wedge A) \vee ((\sim C \wedge C) \vee (\sim C \vee B)))$$

$$(C \wedge (A \vee \sim B) \vee (\sim C \wedge A) \vee (\sim C \wedge B))$$

$$(C \wedge (A \vee \sim B) \vee (\sim C \wedge (A \vee \sim B)))$$

$$(A \vee \sim B) \wedge (C \vee \sim C)$$

$$(A \vee \sim B) \wedge V$$

$$(A \vee \sim B)$$

$$3) (A \vee B) \vee C \vee D) \wedge (A \vee B \vee D) \wedge (A \vee C)$$

$$A \vee ((B \vee C \vee D) \wedge (B \vee D) \wedge C)$$

$$A \vee ((B \vee C(C \vee D) \wedge D \wedge C))$$

$$A \vee (B \vee (D \wedge C))$$