

# Penyederhanaan

<http://www.brigidaarie.com>

A series of horizontal lines of varying lengths and colors (teal, light blue, white) extending from the right side of the page towards the center.

## Absorption

$$A \wedge (A \vee B) \equiv A$$

$$A \vee (A \wedge B) \equiv A$$

$$A \wedge (\neg A \vee B) \equiv A \wedge B$$

$$A \vee (\neg A \wedge B) \equiv A \vee B$$

$$(A \wedge B) \vee (A \wedge \neg B) \equiv A$$

$$(A \vee B) \wedge (A \vee \neg B) \equiv A$$

$$(A \wedge B) \vee (\neg A \wedge B) \equiv B$$

$$(A \vee B) \wedge (\neg A \vee B) \equiv B$$

# Sederhanakan

1.  $(A \vee 0) \wedge (A \vee \neg A)$
2.  $(A \wedge \neg B) \vee (A \wedge B \wedge C)$
3.  $\neg A \rightarrow \neg(A \rightarrow \neg B)$
4.  $A \vee (A \wedge B)$
5.  $A \wedge (A \vee B)$
6.  $(A \rightarrow B) \wedge (B \rightarrow A) \equiv (A \wedge B) \vee (\neg A \wedge \neg B)$
7.  $(A \vee B) \wedge \neg A \wedge \neg B$
8.  $((A \vee B) \wedge \neg A) \rightarrow \neg B$
9.  $(\neg A \rightarrow \neg B) \rightarrow ((A \rightarrow B) \rightarrow \neg A)$
10.  $A \leftrightarrow B$
11.  $\neg(A \wedge \neg A)$
12.  $\neg(A \vee \neg A)$