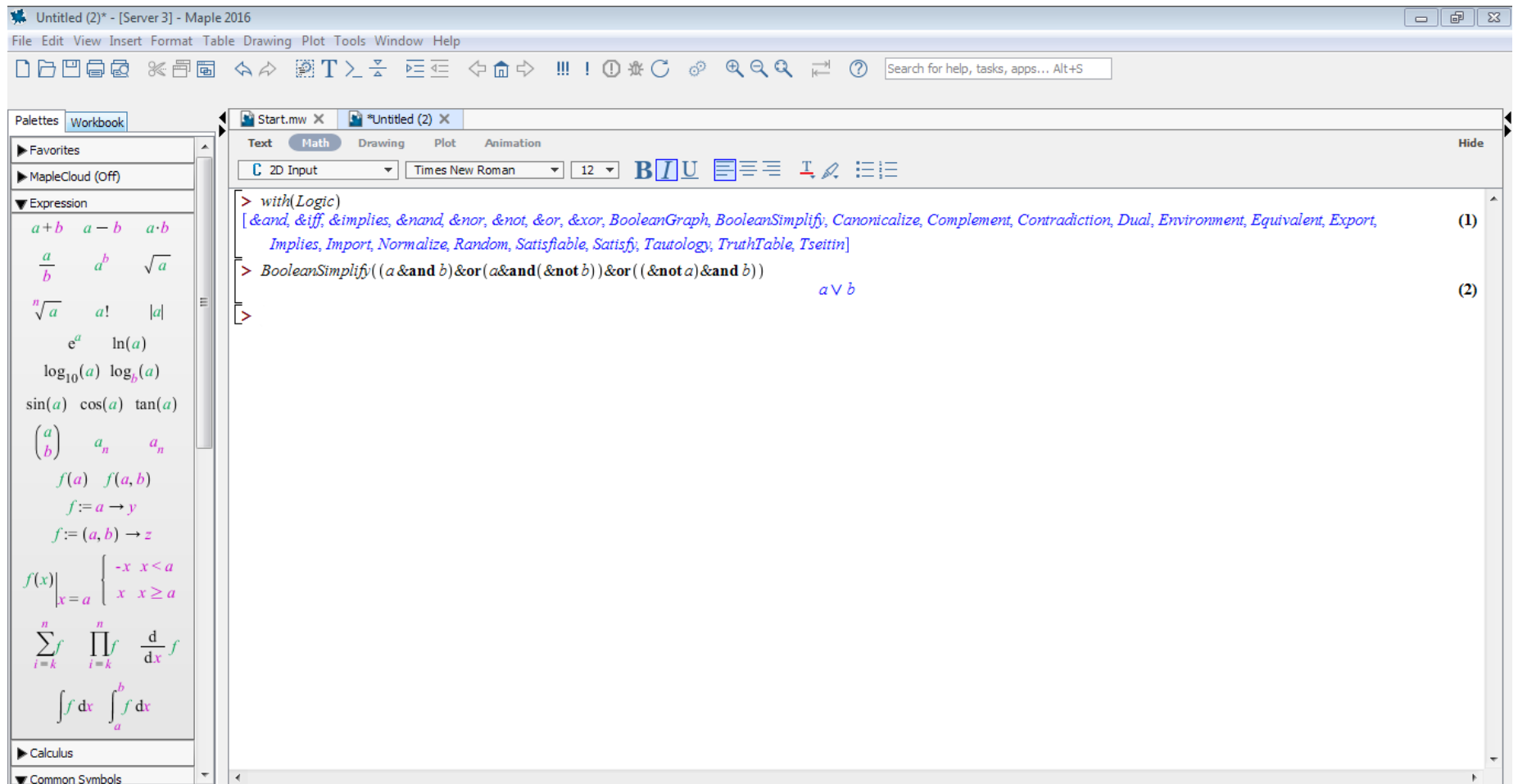


LAPORAN PRAKTIKUM
DASAR PEMROGRAMAN

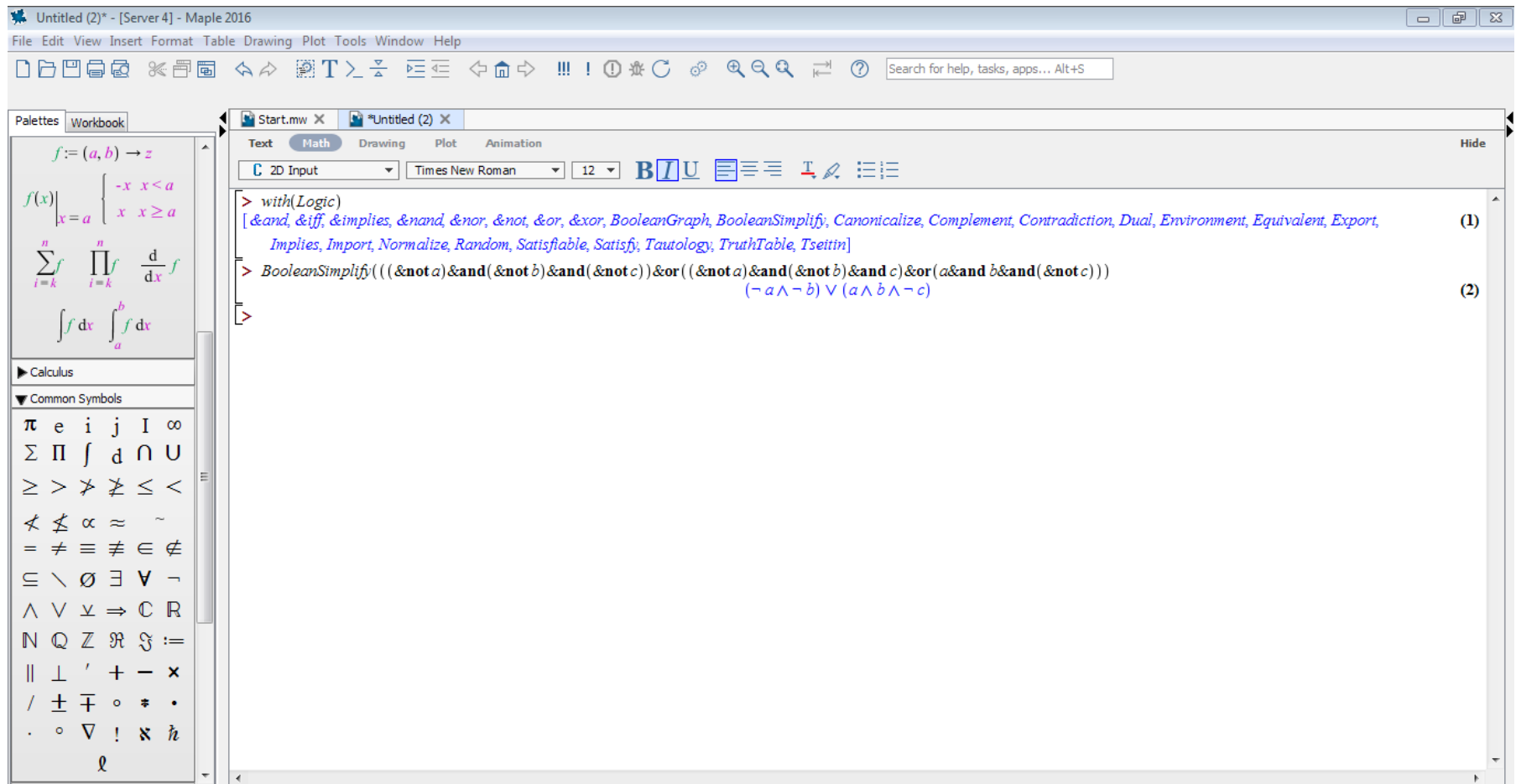


DISUSUN OLEH:
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SABTU 07.30-KELAS C

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNOLOGI INDUSTRI
UNIVERSITAS AHMAD DAHLAN
NOVEMBER 2021



Hasil dokumentasi contoh 1



Hasil penyederhanaan dari $Y=A'B'C'+A'B'C+ABC'$ adalah $Y=A'B'+ABC'$ sesuai dengan hukum *Distributif* dan *Absorpsi*

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Palettes Workbook

Calculus

Common Symbols

Live Data Plots

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$f := (a, b) \rightarrow z$
 $f(x) \Big|_{x=a} \begin{cases} -x & x < a \\ x & x \geq a \end{cases}$
 $\sum_{i=k}^n f$ $\prod_{i=k}^n f$ $\frac{d}{dx} f$
 $\int f dx$ $\int_a^b f dx$

$$BooleanSimplify(((\&\text{not } a) \&\&(\&\text{not } b) \&\&(\&\text{not } c)) \&\text{or}((\&\text{not } a) \&\&(\&\text{not } b) \&\&c) \&\text{or}(a \&\&b \&\&(\&\text{not } c)))$$

$$(-a \wedge \neg b) \vee (a \wedge b \wedge \neg c)$$

(2)

$$T1 := TruthTable(((\&\text{not } a) \&\&(\&\text{not } b) \&\&(\&\text{not } c)) \&\text{or}((\&\text{not } a) \&\&(\&\text{not } b) \&\&c) \&\text{or}(a \&\&b \&\&(\&\text{not } c)))$$

(3)

	a	b	c	value
1	false	false	false	true
2	false	false	true	true
3	false	true	false	false
4	false	true	true	false
5	true	false	false	false
6	true	false	true	false
7	true	true	false	true
8	true	true	true	false

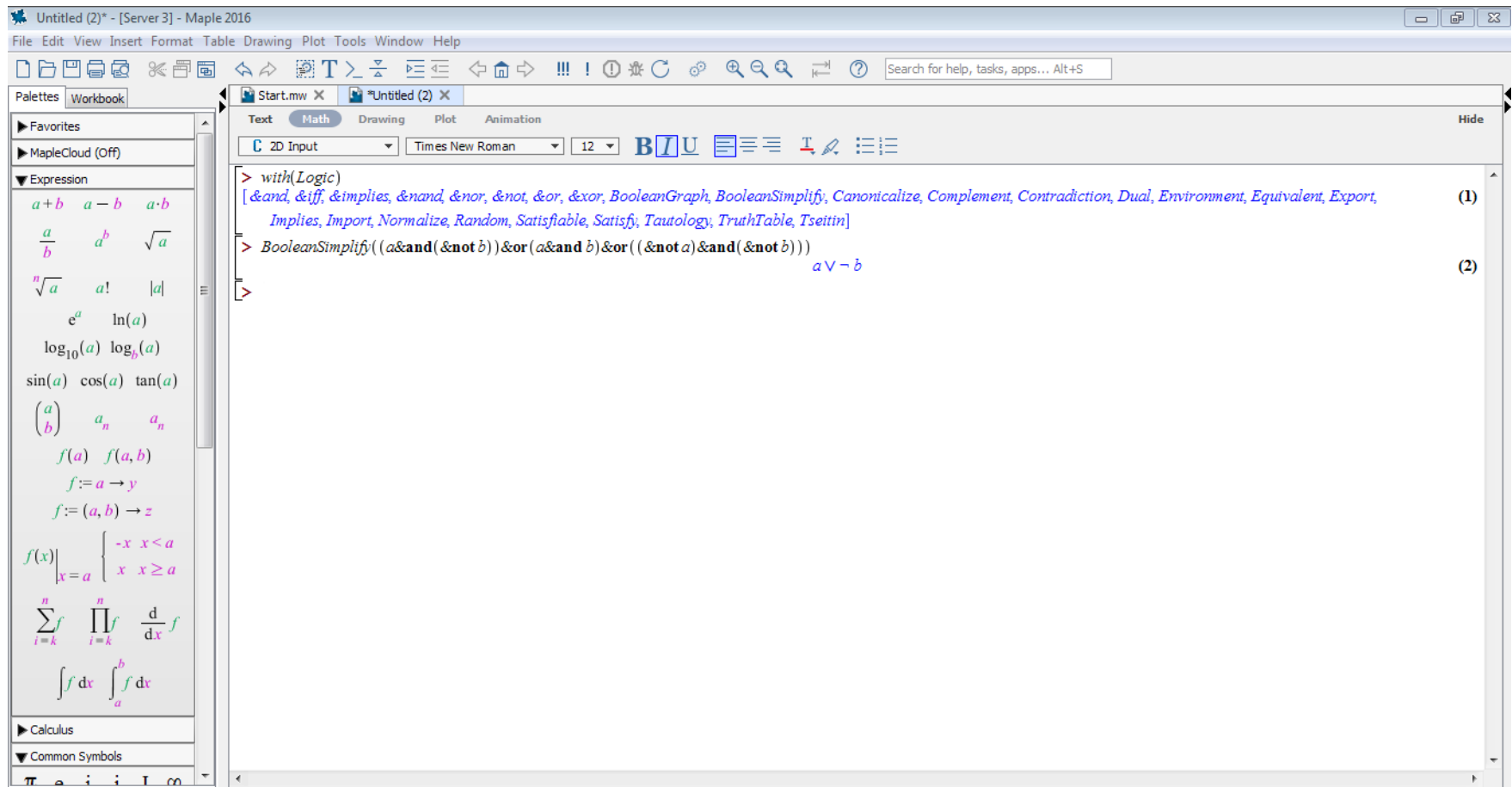
(4)

$$T2 := TruthTable(((\&\text{not } a) \&\&(\&\text{not } b)) \&\text{or}(a \&\&b \&\&(\&\text{not } c)))$$

(4)

	a	b	c	value
1	false	false	false	true
2	false	false	true	true
3	false	true	false	false
4	false	true	true	false
5	true	false	false	false
6	true	false	true	false
7	true	true	false	true
8	true	true	true	false

T1 adalah truth table sebelum disederhanakan, dan T2 adalah truth table setelah disederhanakan. Terbukti bahwa T1=T2



Hasil penyederhanaan dari $Y=A'B+AB+A'B'$ adalah $Y=A+B'$ sesuai dengan hukum *Distributif* dan *Absorpsi*

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Palettes Workbook

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$$\sum_{i=k}^n f \prod_{i=k}^n f \frac{d}{dx} f$$

$$\int f dx \int_a^b f dx$$

Calculus

Common Symbols

$\pi, e, i, j, I, \infty, \Sigma, \Pi, \int, d, \cap, U, \geq, >, \neq, \leq, <, \approx, \sim, =, \neq, \equiv, \notin, \subseteq, \setminus, \emptyset, \exists, \forall, \neg, \wedge, \vee, \perp, \Rightarrow, \Leftrightarrow, \mathbb{R}, \mathbb{N}, \mathbb{Q}, \mathbb{Z}, \Re, \Im, :=, \parallel, \perp, ', +, -, \times, /, \pm, \mp, \circ, *, \cdot, \cdot, \circ, \nabla, !, \approx, \hbar, \ell$

Live Data Plots

Variables

Variable Value

> with(Logic)
 [&and, &iff, &implies, &and, &nor, ¬, &or, &xor, BooleanGraph, BooleanSimplify, Canonicalize, Complement, Contradiction, Dual, Environment, Equivalent, Export, Implies, Import, Normalize, Random, Satisfiable, Satisfy, Tautology, TruthTable, Tseitin]
 > BooleanSimplify((a&and(¬ b))&or(a&and b)&or((¬ a)&and(¬ b)))

$$a \vee \neg b$$

 > T1 := TruthTable((a&and(¬ b))&or(a&and b)&or((¬ a)&and(¬ b)))

$$T1 := \begin{matrix} & a & b & \text{value} \\ 1 & \text{false} & \text{false} & \text{true} \\ 2 & \text{false} & \text{true} & \text{false} \\ 3 & \text{true} & \text{false} & \text{true} \\ 4 & \text{true} & \text{true} & \text{true} \end{matrix}$$

 > T2 := TruthTable(a&or(¬ b))

$$T2 := \begin{matrix} & a & b & \text{value} \\ 1 & \text{false} & \text{false} & \text{true} \\ 2 & \text{false} & \text{true} & \text{false} \\ 3 & \text{true} & \text{false} & \text{true} \\ 4 & \text{true} & \text{true} & \text{true} \end{matrix}$$

 >

T1 adalah truth table sebelum disederhanakan,dan T2 adalah truth table setelah disederhankan.Terbukti bahwa T1=T2