Nama : Nada Yumna

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Tugas 2

# Nomor 2

1. Konjungsi : p Λ q

Disjungsi : p V q

Nilai kebenaran konjungsi : T dan T adalah T

Nilai kebenaran disjungsi : T atau T adalah T

1. Konjungsi : p Λ q

Disjungsi : p V q

Nilai kebenaran konjungsi : F dan T adalah F

Nilai kebenaran disjungsi : F atau T adalah T

1. Konjungsi : p Λ q

Disjungsi : p V q

Nilai kebenaran konjungsi : F dan T adalah F

Nilai kebenaran disjungsi : F atau T adalah T

# Nomor 3

Point A

| p | q | (p Λ q) | -p | (p Λ q) V -q |
| --- | --- | --- | --- | --- |
| T | T | T | F | T |
| T | F | F | F | F |
| F | T | F | T | T |
| F | F | F | T | T |

Point B

| p | q | -p | -q | (p Λ -q) | (-p Λ q) | (p Λ -q) V (-p Λ q) |
| --- | --- | --- | --- | --- | --- | --- |
| T | T | F | F | F | F | F |
| T | F | F | T | T | F | T |
| F | T | T | F | F | T | T |
| F | F | T | T | F | F | F |

Point C

| p | r | q | -q | (p V r) | 一 (p V r) | 一 (p V r) Λ -q |
| --- | --- | --- | --- | --- | --- | --- |
| T | T | T | F | T | F | F |
| T | T | F | T | T | F | F |
| T | F | T | F | T | F | F |
| T | F | F | T | T | F | F |
| F | T | T | F | T | F | F |
| F | T | F | T | T | F | F |
| F | F | T | F | F | T | F |
| F | F | F | T | F | T | T |

Point D

| p | q | r | (p → q) | (p → q) → r |
| --- | --- | --- | --- | --- |
| T | T | T | T | T |
| T | T | F | T | F |
| T | F | T | F | T |
| T | F | F | F | T |
| F | T | T | T | T |
| F | T | F | T | F |
| F | F | T | T | T |
| F | F | F | T | F |

Point E

| p | q | -q | p ↔ -q |
| --- | --- | --- | --- |
| T | F | T | T |
| T | T | F | F |
| F | F | T | F |
| F | T | F | T |

# Nomor 4

Point A

| p | q | -p | -q | (p → q) | (-p → -q) | (p → q) ↔ (-p → -q) |
| --- | --- | --- | --- | --- | --- | --- |
| T | T | F | F | T | T | T |
| T | F | F | T | F | T | F |
| F | T | T | F | T | F | F |
| F | F | T | T | T | T | T |

Point B

| p | q | -p | -q | (p Λ q) | (-p Λ q) | (-p Λ q) → p | ((-p Λ q) → p) Λ -q | (p Λ q) V (((-p Λ q) → p) Λ -q) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| T | T | F | F | T | F | T | F | T |
| T | F | F | T | F | F | T | F | F |
| F | T | T | F | F | T | F | F | F |
| F | F | T | T | F | F | T | T | T |

# Nomor 5

1. p V q
2. -p Λ -r
3. p Λ -r
4. (q Λ -r) → (p Λ s)
5. s ↔ q