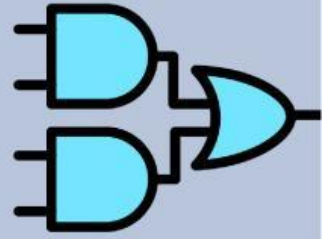


LKPD

INFORMATIKA



EKSPRESI DAN OPERASI LOGIKA



Tujuan Pembelajaran:

1. Memahami dasar-dasar logika.
2. Menerapkan logika dalam pemecahan masalah.

Aktivitas 1: Belajar Logika Proporsional

Agar kalian memahami materi ini, bisa tonton video di bawah ini:
<https://www.youtube.com/watch?v=6nTXxS8kMiY>



Perhatikan contoh operasi logika di bawah ini:

AND $1 \text{ AND } 1 = 1$

AND $1 \text{ AND } 0 = 0$

OR $1 \text{ OR } 1 = 1$

OR $1 \text{ OR } 0 = 1$

NOT $\text{NOT } 0 = 1$

NOT $\text{NOT } 1 = 0$

Logika Kompleks :

$(0 \text{ AND } 1) \text{ OR } (\text{NOT } 0) = 1 \text{ OR } 1 = 1$

Latihan!

$0 \text{ AND } 1 = \dots\dots\dots$

$0 \text{ OR } 1 = \dots\dots\dots$

$(\text{NOT } 0) \text{ AND } 1 = \dots\dots\dots$

$0 \text{ AND } 0 = \dots\dots\dots$

$1 \text{ OR } 1 = \dots\dots\dots$

$0 \text{ OR } (\text{NOT } 1) = \dots\dots\dots$

$(0 \text{ OR } 0) \text{ AND } (\text{NOT } 1) = \dots\dots\dots$

$\text{NOT } (1 \text{ AND } 1 \text{ OR } 0) = \dots\dots\dots$

Aktivitas 2: Membuat Tabel Kebenaran

1. Perhatikan tabel kebenaran untuk ekspresi logika berikut :

A	B	A AND B	A OR B	NOT A
0	0	0	0	1
0	1	0	1	1
1	0	0	1	0
1	1	1	1	0

2. Lengkapilah tabel berikut:

A	B	C	NOT A	B AND C	A AND B	(NOT A) OR (B AND C)	(A OR B) AND (NOT A)
0	0	0					
0	0	1					
0	1	0					
0	1	1					
1	0	0					
1	0	1					
1	1	0					
1	1	1					

*Selamat
mengerjakan*