

Nama = Sania Apriza

Kelas = Tk 3 C

NIM = 09030282327059

No. \_\_\_\_\_

Date . . .

### Pengjumlahan Biner:

1)  $1101_2 + 1011_2$

$$\begin{array}{r} \text{Jawab} = \quad 1101 \\ \quad \quad 1011 \\ \hline \quad \quad 11000_2 \end{array}$$

Penjelasan =

a)  $0+0=0$

b)  $0+1=1$

c)  $1+0=1$

d)  $1+1=10$  (bawa 1)

2)  $11101_2 + 11011_2$

$$\begin{array}{r} \text{Jawab} = \quad 11101 \\ \quad \quad 11011 \\ \hline \quad \quad 110000_2 \end{array}$$

3)  $110110101_2 + 101011010_2$

$$\begin{array}{r} \text{Jawab} = \quad 110110101 \\ \quad \quad 101011010 \\ \hline \quad \quad 110001111_2 \end{array}$$

### Pengurangan Biner:

4)  $10101_2 - 10011_2$

$$\begin{array}{r} \text{Jawab} = \quad 10101 \\ \quad \quad 10011 \\ \hline \quad \quad 10_2 \end{array}$$

Penjelasan =

-  $0-0=0$

-  $1-0=1$

-  $1-1=0$

-  $0-1=1$  (Pinjam 1 dari kolom kiri)

No. \_\_\_\_\_

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$$5.) 110010_2 - 101101_2$$

$$\begin{array}{r} \text{Jawab:} \quad 110010 \\ \quad \quad 101101 \\ \hline \quad \quad 101_2 \end{array}$$

$$6.) 100110_2 - 11001_2$$

$$\begin{array}{r} \text{Jawab:} \quad 100110 \\ \quad \quad 11001 \\ \hline \quad \quad 1101_2 \end{array}$$

Perkalian biner:

$$7.) 110_2 \times 101_2$$

$$\begin{array}{r} \text{Jawab:} \quad 110 \\ \quad \times 101 \\ \hline \quad 110 \\ \quad 000 \\ \quad 110 \\ \hline + 1110_2 \end{array}$$

Penjelasan

$$a.) 0 \times 0 = 0$$

$$b.) 0 \times 1 = 0$$

$$c.) 1 \times 0 = 0$$

$$d.) 1 \times 1 = 1$$

$$8.) 1011_2 \times 110_2$$

$$\begin{array}{r} \text{Jawab:} \quad 1011 \\ \quad \times 110 \\ \hline \quad 0000 \\ \quad 1011 \\ \quad 1011 \\ \hline + 1000110_2 \end{array}$$