

Nama : Surup Maharani Agnes  
Kelas : Fisika 2021 0  
NIM : 21030224016

$$1.) \begin{array}{r} 1110,101 \\ 10,010 + \\ \hline 10000,111 \end{array}$$

$$2.) \begin{array}{r} 10101,01 \\ 10,10 \times \\ \hline 1010101 \\ 1010101 + \\ \hline 110101,0010 \end{array}$$

$$3.) 125,25_{10} = 1111101,01$$

↳  $0,25 \times 2 = 0,5$   
 $0,5 \times 2 = 1,0$

↳  $125 : 2 = 62$  sisa 1  
 $62 : 2 = 31$  sisa 0  
 $31 : 2 = 15$  sisa 1  
 $15 : 2 = 7$  sisa 1  
 $7 : 2 = 3$  sisa 1  
 $3 : 2 = 1$  sisa 1

$$4.) 1101001,101_2 = 105,625_{10}$$
$$= 2^6 + 2^5 + 2^3 + 2^0 + 2^{-1} + 2^{-3}$$
$$= 64 + 32 + 8 + 1 + 0,5 + 0,125$$
$$= 105,625$$

$$5.) 1234_{10} = 402$$
$$= 1234 : 16 = 77 \text{ sisa } 2$$
$$77 : 16 = 4 \text{ sisa } 13$$
$$4 : 16 = 0 \text{ sisa } 4$$

$$6.) 289_{16} = 832_{10} = 697$$
$$= 2 \times 16^2 + 11 \times 16 + 9 \times 16^0$$
$$= 512 + 176 + 9$$
$$= 697$$

$$7.) 2AB_{16} = 001010101011_2$$

$$= \begin{array}{ccc} 2 & A & B \\ 0010 & 1010 & 1011 \end{array}$$

$$8.) \underbrace{11}_3 \underbrace{0101}_5 \underbrace{1101}_D \underbrace{0011}_3_2$$

$$= 35D3_2$$

$$9.) 27,75_{10} = 33,6$$

$$\begin{array}{l} \rightarrow 0,75 \times 8 = 6 \\ \rightarrow 27 : 8 = 3 \text{ sisa } 3 \\ \rightarrow 3 : 8 = 0 \text{ sisa } 3 \end{array}$$

$$10.) \underbrace{1011}_2, \underbrace{01}_2 = 13,2$$

$$\begin{array}{l} \rightarrow 010_2 = 2 \\ \rightarrow 011_2 = 3 \\ \rightarrow 001 = 1 \end{array}$$