QNO1

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20P-0147
EE 287

(a)

Converting $165\,35_{10}$ in Hexadecimal

whole part of a number is obtained by dividing on

$$\begin{array}{r|l} 165 & 16 \\ -160 & 10 \\ \hline 5 & \end{array}$$

Happened $165_{10} = A5_{15}$

The fractional part of number is found by multiplying on the basis no

$$\begin{array}{r} 0.535 \\ \times\ 16 \\ \hline 8.56 \\ \times\ 16 \\ \hline 8.96 \\ \times\ 16 \\ \hline 15=F.36 \\ \times\ 16 \end{array}$$

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5	76	
	16	
12=C	16	
	16	
9	56	
	16	
8	96	
	16	
15=F	36	
	16	
5	76	
	16	
12=C	16003	
	16	
9	56055	
	16	

$0.535_{10} = 0.88F5C98F5C9_{16}$

$A5_{16} + 0.88FC98F5C9_{16} = A5.88F5C98F5C9$

Result

$165.535_{10} = A5\ 88F5C98F5C9_{16}$

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(b) $(93)_{16} + (DE)_{16}$

93 → 10010011

11011110

10111001 → 171

$(93)_{16} + (DE)_{16} = (171)_{16}$