

Year:

Month:

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Subject:

سؤال (2)

+2

$$29 \Rightarrow 2^4 + 2^3 + 2^2 + 2^0 \rightarrow 011101 \rightarrow -29 = 100011 \quad \text{الف}$$

+2

$$21 \Rightarrow 2^4 + 2^2 + 2^0 \rightarrow 010101 \rightarrow -21 = 101011$$

$$-29 - 21 \Rightarrow -29 + (-21)$$

$$\begin{array}{r} 100011 \\ + 101011 \\ \hline 100110 \end{array}$$

overflow!

+4

+1

+4

$$\begin{array}{r} 011101 \\ + 010101 \\ \hline 110010 \end{array}$$

+1

overflow!

$$\begin{array}{l} (11001001)_{\text{gray}} = (10001110)_{\text{BIN}} \\ (10001110)_{\text{gray}} \end{array}$$

-2 because there is no solution

+4

$$\begin{array}{l} (11001001)_{\text{BIN}} = (10101101)_{\text{gray}} \\ (10101101)_{\text{gray}} \end{array}$$

-2 because there is no solution

+4

$$11001001$$

$$\begin{array}{|c|c|c|c|c|c|c|c|c|c|c|c|} \hline 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 1 \\ \hline \end{array}$$

$$P_1, P_2, d_1, P_3, d_2, d_3, d_4, P_4, d_5, d_6, d_7, d_8, d_9, d_{10}, d_{11}, d_{12}$$

$$\text{BIN} \Rightarrow 111010001001$$

+8

$$\begin{array}{r} 011110001001 \\ P_1, P_2, P_4, P_8 \end{array}$$

$$P_1 = 1 \neq 0 \times, P_2 = 1 + 2 = 3$$

$$P_3 = 0 \times, P_4 = 1, P_8 = 2 \times$$

$$\Rightarrow 010110001001$$

-7

Year:

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$$(473406.1934)_8 = (x)_{14}$$

-8

(0)

1. 5.10

$$EVC_{0.4} = E \times \Delta + V \times \Delta + C \times \Delta + E \times \Delta + 0 \times \Delta + 4 \times \Delta_2$$