

(استاد در سوید)

امتحان ①:

الف)

$$-29 - 21 = -29 + (-21) =$$

$$-29 = 2^4 + 2^3 + 2^2 + 2^0 = 0111.1 \xrightarrow{\text{two's comp}} 1000.11 \quad +2$$

$$(-2^5 + 2^0 + 2^1 = -32 + 2 + 1 = -29)$$

$$-21 = 2^4 + 2^2 + 2^0 = 0101.01 \xrightarrow{\text{two's comp}} 1010.11 \quad +2$$

$$(-2^5 + 2^3 + 2^1 + 2^0 = -32 + 11 = -21)$$

$$-29 - 21 =$$

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \\ 1000.11 \\ 1010.11 + \\ \hline 001110 \end{array}$$

sub overflow +1

+4

$$29 + 21 =$$

$$29 = 0111.01$$

$$21 = 0101.01$$

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \\ 0111.01 \\ 0101.01 + \\ \hline 1100.10 \end{array}$$

sub overflow

+1

+4

$$\text{gray} : 11001001$$

+2

-2 because there is no solution

$$\text{BIN} : 10001110$$

$$\text{BIN} : 11001001$$

+2

-2 because there is no solution

$$\text{gray} : 10101101$$

$P_1$	$P_4$	$P_5$	$P_8$								
1	1	1	0	1	0	0	0	1	0	0	1
=	=	=					=				

$$111010001001$$

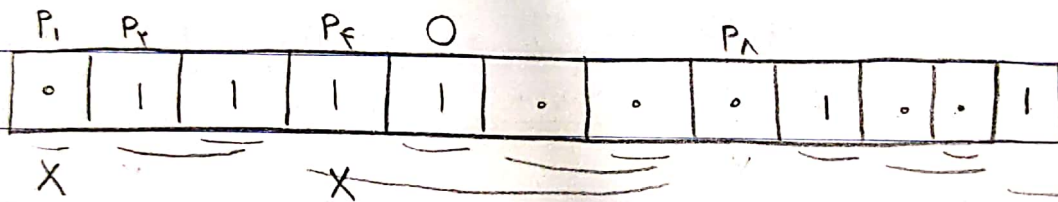
+8

$$(FV3F.4, 1223E)_8 = (?)_{16}$$

+7

$$(FV3E.4, 1223E)_8 = \underline{(10011101100000110 / 001010010011100)}_2$$

$$(2VV.4, 293A)_{14}$$



$$P_1 + P_F = P_O \quad \text{استه است}$$

+8

داره اصلی : 10001001

0101