

①

انت) $29 = (11101)_2$

$21 = (10101)_2$ +2

$-29 = (00011)_2$

ورقی $\rightarrow (10011)_2$ +2

$29 : 11101$

$21 : 10101$

$-29 : 10011$

$21 : 10101$

$\xrightarrow{\text{قصد}} (11000) = -9 \checkmark$

+4

11001

$\checkmark = 0 \checkmark$

-1

صیغه برام سر فرض ندارد

-1

ب)

11001001

$\rightarrow b_v = 1$

$b_s = g_v \text{ nor } g_s = 0$

$b_w = b_s \text{ nor } g_d = 0$

$b_e = b_w \text{ nor } g_p = 0$

+4

$b_r = b_e \text{ nor } g_p = 1$

$b_r = b_e \text{ nor } g_p = 1$

$b_i = b_r \text{ nor } g_1 = 1$

$b_o = b_i \text{ nor } g_o = 0$

$\rightarrow 1000111$

ج)

$g_o = b_r = 1$

$g_1 = b_o \text{ nor } b_i = 1$

$g_r = b_i \text{ nor } b_r = 0$

$g_r = b_r \text{ nor } b_r = 1$

-4

$g_e = b_r \text{ nor } b_e = 1$

$g_o = b_r \text{ nor } b_o = 0$

$g_s = b_o \text{ nor } b_s = 1$

$g_v = b_r \text{ nor } b_v = 0$

$\Rightarrow 01011011$

د)

$$9) 4x^6 + 7x^5 + 3x^4 + 5x^3 + 6x^2 + 1x^1 + 2x^0 + 1x^1 + 2x^2 + 2x^3 + 3x^4 + 5x^5 + 4x^6 = 191042 + 191010$$

$$191042 \div 191010 = 1.00022 \rightarrow 191042 = (277.6)_{16}$$

-7

$$191010 \times 16 = 3056160 \div 16 = 191010$$

$$= 49696 = (277.6, 293)_{16}$$

تبدیل به مبنای 10 و سپس تبدیل به مبنای مقصد کلا غلط است