

$$(112)_{10} + (121)_{10} = (1110000)_2 + (1111001)_2 \quad (1c) \quad (2)$$

$$\begin{array}{r} 11 \\ + 1110000 \\ + 1111001 \\ \hline \end{array}$$

$$(11101001)_2 = (233)_{10}$$

$$(237)_{10} = (ED)_{16} = (11101101)_2 = \quad (1c) \quad (2)$$

העברה
מחירה

$$(127)_{10} \quad (177)_8 = (1111111)_2$$

$$110$$

$$\begin{array}{r} 10101010 \\ 000-10010 \\ - 1111111 \\ \hline 1111111 \end{array}$$

$$\checkmark = (110)_{10} = (1101110)_2$$

$$*207 \rightarrow 11001111$$

$$412 \rightarrow 110011100$$

$$+207 \quad 0011001111$$

$$-207 \quad 1100110000$$

$$+412 \quad 0110011100$$

$$-412 \quad 1001100011$$

$$+ -207 - 412 = -619 \quad (2)$$

מס' קס"ט, אלף וקמ"ט

סביב ס'מ

פתרון אחר: יש להשתמש בדרך אחרת

$$(-412) + (207)$$

$$\begin{array}{r} 11 \quad 1111 \\ + 1001100011 \\ + 0011001111 \\ \hline \end{array}$$

$$(-) 1100110010$$

$$(+) 0011001101$$

$$= + (205) \checkmark$$

(2)

לפי
הפע

$$412 + (-207)$$

$$\begin{array}{r} 11 \quad 11 \\ + 0110011100 \\ + 1100110000 \\ \hline \end{array}$$

$$(1) \quad 0011001100$$

$$\rightarrow 1$$

$$0011001101 = +205 \checkmark$$

(2)

$$+756 \rightarrow \overset{\text{ס' 0}}{\underset{\text{ס' 0}}{0}} 1011110100$$

(4)

11 ס' 0
11 ס' 1

$$\begin{array}{r} + 10100001011 \\ \hline - 756 \quad 10100001100 \\ \hline \end{array}$$

$$+2049 \quad 01000000000001$$

$$+ 1011111111110$$

ס' 1111

$$-2049 \quad 101111111111$$

13
ס' 11

$$F(A,B,C,D) = A \cdot B + B \cdot D + \overline{A} \overline{B} \overline{C} \overline{D}$$

(5)

$$\begin{aligned} F(1,1,0,0) &= \overline{1 \cdot 1 + 1 \cdot 0 + 1 \cdot \overline{1} \cdot 0 \cdot \overline{0}} = \overline{1 + 0 + 0} \\ &= \overline{1} = 0 \end{aligned}$$

$$\begin{aligned} F(1,0,1,0) &= \overline{1 \cdot 0 + 0 \cdot 0 + 1 \cdot \overline{0} \cdot 1 \cdot \overline{0}} \\ &= \overline{0 + 0 + 1 \cdot 1 \cdot 1 \cdot 1} = \overline{0 + 0 + 1} = 1 \end{aligned}$$

$$\begin{aligned} F(1,0,0,1) &= \overline{1 \cdot 0 + 0 \cdot 1 + 1 \cdot \overline{0} \cdot 0 \cdot \overline{1}} \\ &= \overline{0 + 0 + 1 \cdot 1 \cdot 0 \cdot 0} = \overline{0 + 0 + 0} = \overline{0} = 1 \end{aligned}$$