لو∅ ١١١ ∅∅

أ)
$$-(2^{7}\underset{2^{6}}{}\underset{2^{5}}{}\underset{2^{4}}{}\underset{2^{3}}{}\underset{2^{2}}{}\underset{2^{1}}{}\underset{2^{0}}{})$$

$$(100\ 111\ \emptyset\emptyset)_2 = (-١٢٨ + ١٦ + ٨ + ٤\quad)_{١٠}$$

$$= (-99)_{10}$$

+4

ب) $(100\ 111\ 00)_2 = (-١٢٨ + ١٦ + ٨ + ٤)$

+4

$$= (-100)_{10}$$

ج)
$$2^{3}\ \underset{2^{2}}{}\ \underset{2^{1}}{}\ 2^{0}\ \underset{2^{-1}}{}\ 2^{-2}$$
$$(100\ \text{\textbar}\ 11\ 00)_2 = (9,75)_{١٠}$$

+6

$$= (8 + 1 + 0{,}5 + 0{,}25)$$

د)
$$-2^{3}\quad 2^{0}\quad 2^{-1}\ 2^{-2}$$
$$(100\text{\textbar},\ 1100) = (-8 + 1 + 0{,}5 + 0{,}25)$$

-6

-6.25

$$= (-7{,}5)$$