

الف) عدد دوازده (12) 01110100

$$(01110100)_2 = 116$$

+4

عدد: 116

$$2^7 + 2^3 + 2^1 + 2^0 =$$

(1)

$$128 + 8 + 2 + 1 = 139$$

+4

10001,011

(2)

$$= 2^4 + 2^0 + 2^{-2} + 2^{-3} = 16 + 1 + \frac{2}{8} + \frac{1}{8}$$

$$= 17.375$$

+6

$$100,01011 = 2^2 + 2^{-2} + 2^{-4} + 2^{-5}$$

(3)

$$= -4 + \frac{8 + 2 + 1}{32} = -3.65625$$

+6