

$$(110011001)_2 \xrightarrow[Comp]{1's} (001100110)_2 = 2^5 + 2^4 + 2^2 = +54$$

+4

$\Rightarrow -54$

$$C_2^N = C_1^N + 1 = +54 + 1 = 55 \Rightarrow -55$$

+4

(✓)

$$(1100.1001)_2$$

$$-8 + 4 + 0.5 + 0.0625 = -4.5625$$

+2

$$-4.5625$$

4

(2)

$$(1100.1001)_2$$

$\xrightarrow{2's\ comp}$

$$-(0011.0111)_2 = -(3 + 0.25 + 0.125 + 0.0625)$$

+1

$$= -(3 + 0.2375)_{10} = -(3.2375)_{10}$$

$$= -3.2375$$

-5