$A = 11001001$

سوال ۲ الف ۱

$= 1\text{'s comp} \rightarrow 11001001 : (201)_{10}$

$: 00110110 \rightarrow (-54)_{10}$

(ب)

$2\text{'s comp} : 00110110 \xrightarrow{(-54)_{10}}$

$00110111 : \rightarrow (-55)_{10}$

$(11001001)_2 = 1 \times 2^3 + 1 \times 2^2$

$+ 0 \times 2^1 + 0 \times 2^0 + 1 \times 2^{-1} + 0 \times 2^{-2}$

$+ 0 \times 2^{-3} + 0 \times 2^{-4}$

$= 12 + \frac{1}{16} = (12.0625)_{10}$

1100.1001

$2\text{'s comp} \longrightarrow -(0011.0110)$

$= -(3 + 1 \times 2^{-2} + 1 \times 2^{-3})$

$= -(3 + \frac{3}{8}) = -(3.375)_{10}$