علیرضا بابایی - شماره دانشجویی ۵۱۱۲۹۶۲۶۶

الف)

$$(11001001)_2 \Rightarrow (00110110)_2 \Rightarrow \quad \boxed{-54}$$

$$(00110110)_2 \Rightarrow \frac{0+2+4+0+16+32}{} \Rightarrow$$

$$= 54 \qquad +4$$

ب)

$$(11001001)_2 \Rightarrow (00110001)_2 \Rightarrow$$

$$\underset{\text{ثابت}}{}$$

$$(00110001) \Rightarrow 1+16+32 = \qquad -55$$

$$-4$$

ج)

$$(11001001) = (24{,}5625)_{10}$$

$$\qquad -6.28125$$
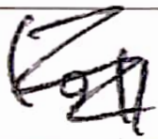
$$(1100)_2 = 2^3 \times 1 \times 2^2 \times 1 = (24)_{10} \qquad -6$$

$$(0.1001)_2 = 2^{-1} \times 1 + 2^{-4} \times 1 = \frac{1}{2} + \frac{1}{16} = \frac{9}{16} \Rightarrow$$

$$(0.5625)_{10}$$

$$(11\circ\circ\,/\,1\circ\circ1) \Rightarrow (\circ\circ11\,/\,\circ11\circ) \Rightarrow$$

$$2^{\circ} + 2^{1} = 2^{3}$$

$$(\circ/\circ11\circ) \Rightarrow 2^{-2} \times 1 + 2^{-3} \times 1 = 1\tfrac{1}{2} + \tfrac{1}{8}$$

$$= \frac{3}{8} = \circ/2V\circ = -6.875$$

-6