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4 Nov 2015

الجمعة /

آبان

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Wednesday • چهارشنبه

$$A = 11001001$$

سوال ۲ الف

+4

$$1's \text{ comp} \rightarrow \begin{matrix} 7 & 6 & 5 & 4 & 3 & 2 & 1 & 0 \\ 1 & 1 & 0 & 0 & 1 & 0 & 0 & 1 \end{matrix} : (201)_{10} \\ 00 \ 110110 \Rightarrow (-54)_{10}$$

+4

$$2's \text{ comp} : 00 \ 110110 \xrightarrow{(-54)_{10}} 00 \ 110111 : (-55)_{10}$$

$$(11001001)_2 = 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 + 1 \times 2^{-1} + 0 \times 2^{-2} + 0 \times 2^{-3} + 0 \times 2^{-4} \\ = 12 + \frac{1}{16} = (12.0625)_{10}$$

12.5625

-3

+3

$$1100.1001$$

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

-3.4375

+1

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

+2

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

-3

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