

پاسخ سوال ۴ و ۶ از تمرین سری اول:

(۴)

$$a = -\left(\frac{5}{8}\right)_{10} \rightarrow C_2\left(+\frac{5}{8}\right) = C_2(+0.625) = C_2(0.1010)_2 = \boxed{1.0110}$$

$$b) +\left(\frac{1}{2}\right)_{10} = (0.1000)_2$$

$$c) (1.1111)_2 = -C_2(1.1111) = -(0.0001) \rightarrow -\frac{1}{16}$$

$$d) -\left(\frac{15}{16}\right)_{10} \rightarrow C_2\left(+\frac{15}{16}\right) = C_2(0.1111) = (1.0001)_2$$

(۶)

$$(101101.101)_2 = \underbrace{0.101101101}_{\text{مانش}} \times 2^6$$

$$6 = +6 = 00110 \rightarrow \text{Excess } -3 = +9 = 01001$$

