

$$\begin{aligned}2^{-1} &= 0.5 \\2^{-2} &= 0.25 \\2^{-3} &= 0.125 \\2^{-4} &= 0.0625\end{aligned}$$

$$\begin{aligned}1.100_0000_0000_0000 &= \underline{\underline{-0.100\ 0000\ 0000\ 0000}} \\ &= \underline{\underline{-0.5}}\end{aligned}$$

$$\begin{aligned}1.110_0000_0000_0000 &= \underline{\underline{-0.010\ 0000\ 0000\ 0000}} \\ &= \underline{\underline{-0.25}}\end{aligned}$$

$$\begin{aligned}1.111_0000_0000_0000 &= \underline{\underline{-0.001\ 0000\ 0000\ 0000}} \\ &= \underline{\underline{-0.125}}\end{aligned}$$