

$$(1011011.001)_2 \rightarrow (?)_{10}$$

$$x = \sum (d_n \beta^n + d_{n-1} \beta^{n-1} + \dots)$$

$$(1011011.001)_2 = \left(1 \cdot 2^6 + 1 \cdot 2^4 + 1 \cdot 2^3 + \dots \right. \\ \left. \dots + 1 \cdot 2^1 + 1 \cdot 2^0 + 1 \cdot 2^{-3} \right)$$

$$= 64 + 16 + 8 + 1 + 0.125$$

$$= \boxed{91.125}$$