

$$= 16 + 8 + 4 + 2 + 0$$
$$= \boxed{30}$$

$$\begin{array}{r}
 10011000 \\
 10010000 \\
 10011000 \\
 10011000 \\
 \hline
 1100011110000 \\
 \text{5, 25, 125, 625} \\
 \hline
 24.9375
 \end{array}$$

$$110.1011 + 1 \approx 110.1101$$

$$\begin{aligned} & 110111.101000 \\ \approx & 110111.100111 \\ & -(001000.011000) \\ = & \boxed{-4.375} \end{aligned}$$

[illegible]

2. 0144FC0000

=

0b 0100 0100 1111 1100 0100 0000 ...

0 : 10001001 11110 ...

+ : - 127

= 1010

= 510

$$\begin{aligned}
 &= \cancel{X.11111}_2 \cdot 2^{10} \quad | \cdot 11111 \cdot 2^{10} \\
 &= \cancel{11111.1}_2 = 1111100050.0 \dots \\
 &\quad \quad \quad 11111111 \\
 &= \cancel{63.5} = 32 - 16 + 128 + 256 + 512 + 1024 \\
 &= 2016.0
 \end{aligned}$$