

$$12.375_{10}$$

$$16 \overline{) 12}^0$$

$r(12)$   
↓

$$C_{16}$$
  
 $1100_2$

$$\begin{array}{r} 11 \\ .375_{10} \\ \hline 2 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 1.500 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 1.000 \end{array}$$

$$1100.011_2$$

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$$C.8_{16}$$

$$14.3_8$$

$$\begin{array}{r} 001100.011 \\ 14.3 \end{array}$$

$$6.567_8$$

$$\begin{array}{r} 0110.10111011000 \\ 6.BB8_{16} \end{array}$$

$$6.732421875_{10}$$

$$6 \cdot 16^0 + 11 \cdot 16^{-1} + 11 \cdot 16^{-2} + 8 \cdot 16^{-3}$$

$$6 \cdot 1 + 11 \cdot \frac{1}{16} + 11 \cdot \frac{1}{16 \cdot 16} + 8 \cdot \frac{1}{16 \cdot 16 \cdot 16}$$

$$6 + 11 \left( \frac{1}{16} + \frac{1}{16 \cdot 16} \right) + 8 \frac{1}{16 \cdot 16 \cdot 16}$$

$$6 + 11 \frac{16 \cdot 16 + 8}{16 \cdot 16 \cdot 16}$$

$$6 + \frac{11 \cdot 16 \cdot 16 + 8}{16 \cdot 16 \cdot 16}$$

$$6 + \frac{11 \cdot 256 + 8}{256 \cdot 16}$$

$$6 + \frac{2816 + 8}{4096}$$

$$6 + \frac{2824}{4096}$$

$$6.699453125_{10}$$

$$0.730468750$$

$$0.001953125$$

$$0.732421875 +$$

-1 -2 -3 -4 -5 -6 -7 -8 -9

$$110.101110111$$

$$6.1$$

$$\frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2} + \frac{1}{2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} + \frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2}$$

$$\begin{array}{r} 123600008 \\ :125000000 \\ :062500000 \\ :031250000 \\ :007812500 \\ :003906250 \\ :001953125 \end{array}$$

$$6.732421875_{10}$$

$$52.6567_8$$

$$110.101110111_2$$

$$6.BB8_{16}$$

$$6.732421875_{10}$$

$$6 + 11(0.001953125) + 11(0.000390625) + 8(0.00024414062)$$

$$\begin{array}{r} 6.0090600000 \\ 11.0000000000 \\ :6875000000 \end{array}$$

$$6.6875000000_{10}$$

$$\begin{array}{r} 65.67_8 \\ \hline 00100101.11011100_2 \\ \hline 35.DC_{16} \end{array}$$

$$3 \cdot 16^1 + 5 \cdot 16^0 + 13 \cdot 16^{-1} + 12 \cdot 16^{-2}$$

$$3 \cdot 16 + 5 + 13(0.0625) + 12 \cdot (0.00390625)$$

$$48 + 5 + 0.859375$$

$$53.859375_{10}$$

$$A.BC_{16}$$

$$\begin{array}{r} 00100101.10111100_2 \\ \hline 12.570_8 \end{array}$$

$$A \cdot 16^0 + B \cdot 16^{-1} + C \cdot 16^{-2}$$

$$10 \cdot 1 + 11 \cdot 16^{-1} + 12 \cdot 16^{-2}$$

$$10 + 11(0.0625) + 12(0.00390625)$$

$$10.734375_{10}$$

So...

$$\begin{array}{r} 65.67_8 \\ 53.859375_{10} \\ 110101.110111_2 \\ 35.DC_{16} \end{array}$$

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$$A.BC_{16}$$

$$12.570_8$$

$$10.734375_{10}$$

$$1010.10111100_2$$

$$\begin{array}{r} 0101.101_2 \\ \hline 5.5_8 \end{array}$$

$$5. \cancel{A}_{16}$$

$$\begin{aligned} 5 \cdot 16^0 + 10 \cdot 16^{-1} \\ 5 + 10(0.0625) \\ 5.625_{10} \end{aligned}$$

$$\begin{array}{l} 101.101_2 \\ 5.625_{10} \\ 5.5_8 \\ 5.A_{16} \end{array}$$

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