

Home work

$$93_{10} = \frac{50}{16} \times \frac{135}{8} \times \underline{0101101}_2$$

Base 16

$$\begin{array}{r} 0\ 5 \\ 16 \overline{) 93} \\ -80 \\ \hline 13 \end{array}$$

$$\underline{5} \times 10^1 + \underline{D} \times 10^0$$

Base 8

$$\underline{1} \times 8^2 + \underline{3} \times 8^1 + \underline{5} \times 8^0$$

$$\begin{array}{r} 93 \\ -64 \\ \hline 29 \end{array} \quad \left. \begin{array}{r} 29 \\ -24 \\ \hline 5 \end{array} \right\}$$

Base 2

$$\begin{array}{r} 5000 \\ 0101 \quad 1101_2 \end{array}$$

Check: 1 3 5.

$$93_{16} = \underline{1010011}_2 \times \underline{223}_8 \times \underline{197}_{10}$$

Base₂

$$\begin{array}{r} 913 \\ 10010011_2 \end{array}$$

Base₈

$$\frac{\underline{1001\ 0011}_2}{\underline{2\ 2}\ \underline{3}_8}$$

Base₁₀

$$\begin{array}{r} 9 \\ 16 \overline{)197} \\ -144 \\ \hline 53 \\ -48 \\ \hline 5 \end{array}$$

$$156_8 = \underline{10101110}_2 \times \frac{208}{10} \times \underline{AE}_{16}$$

Base₂

$$\begin{array}{r} 156 \\ 10101110 \end{array}$$

Base₁₆

$$\begin{array}{r} 10101110 \\ \hline A E \end{array}$$

Base₁₀

$$\begin{array}{r} 16 \cdot \overbrace{1008}^{17} \\ - 192 \\ \hline 16 \end{array}$$

$$1010101010_2 = \frac{252}{8} \times \frac{156}{16} \times \frac{A8}{64}$$

Base₈:

$$\begin{array}{r} 10101010 \\ \hline 252 \end{array}$$

$$\text{Base}_{16} \quad \begin{array}{r} 10101010 \\ \hline A \quad A \end{array}$$

Base₁₀

$$\begin{array}{r} 12 \\ 16 \sqrt{156} \\ -144 \\ \hline 12 \end{array}$$