

DWDI - 12 - Zajęcia 1 - Katarzyna Gościewska
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zad 1

a) $(472)_8 = (100111010)_2$

$$4 \rightarrow \begin{array}{r} 4:2 \\ 2:2 \\ 1:2 \end{array} \begin{array}{|l} 0 \\ 0 \\ 1 \end{array} \quad 7 \rightarrow \begin{array}{r} 7:2 \\ 3:2 \\ 1:2 \end{array} \begin{array}{|l} 1 \\ 1 \\ 1 \end{array} \quad 2 \rightarrow \begin{array}{r} 2:2 \\ 1:2 \end{array} \begin{array}{|l} 0 \\ 1 \\ 0 \end{array}$$

b) $(153)_8 = (1101011)_2$

$$1 \rightarrow \begin{array}{r} 1:2 \\ \end{array} \begin{array}{|l} 1 \\ 0 \\ 0 \end{array} \quad 5 \rightarrow \begin{array}{r} 5:2 \\ 2:2 \\ 1:2 \end{array} \begin{array}{|l} 1 \\ 0 \\ 1 \end{array} \quad 3 \rightarrow \begin{array}{r} 3:2 \\ 1:2 \end{array} \begin{array}{|l} 1 \\ 1 \\ 0 \end{array}$$

c) $(544)_8 = (101100100)_2$

$$5 \rightarrow (101)_2 \quad 4 \rightarrow (100)_2$$

zad 2

a) $(1101001001)_2 + (1001)_2 = (1101010010)_2$

$$\begin{array}{r} 1 \\ 1001 \\ + 1101001001 \\ \hline 1101010010 \end{array}$$

b) $(54647271)_8 - (14311)_8 = (5452460)_8$

$$\begin{array}{r} 54647271 \\ - 14311 \\ \hline 5452460 \end{array}$$