

2) a

$$a = 01011010 = 90_{10}$$

$$b_{10} = 1223 = 10011000111_2$$

$$z = 01000111 = 71$$

$$\begin{array}{r} 01011010 \\ + 01000111 \\ \hline 10100001 \end{array}$$

2) b a - z

$$\begin{array}{r} 01011010 \\ - 01000111 \end{array}$$

$$\begin{array}{r} 01000111 \\ + 10111000 \\ \hline 100111001 \end{array}$$

$$\begin{array}{r} 01011010 \\ + 10111001 \\ \hline 110001011 \end{array}$$

- positiv Ergebnis
19₁₀

$$a - z = 100010011 = 19_{10} \quad 90 - 71 = 19$$

$$20) 71 - 90 = -19$$

z - a

$$\begin{array}{r} 01000111 \\ - 01011010 \end{array}$$

$$\begin{array}{r} 01011010 \\ + 10100101 \\ \hline 10100110 \end{array}$$

$$\begin{array}{r} 01000111 \\ + 10100110 \\ \hline 11101101 \end{array}$$

- negativ Ergebnis = Stellenkomplement

$$\begin{array}{r} 11101101 \\ + 00010010 \\ \hline 100001111 \end{array} = -19_{10}$$