

$$x = (75)_{10} = (1001011)_2$$

$$y = (40)_{10} = (101000)_2$$

$$\begin{array}{r} 1) 1001011 \\ + 101000 \\ \hline 1110011 \end{array}$$

$$\begin{array}{r} 2) 1001011 \\ - 101000 \\ \hline 100011 \end{array}$$

$$\begin{array}{r} 3) \begin{array}{l|l} 1001011 & 101000 \\ - 101000 & \\ \hline 1000110 & 1,111 \\ - 101000 & \\ \hline 111100 & \\ - 101000 & \\ \hline 0101000 & \\ - 101000 & \\ \hline 0 & \end{array} \end{array}$$

$$\begin{array}{r} 4) 1001011 \\ \times 101000 \\ \hline + 1001011000 \\ 100101100000 \\ \hline 101110111000 = (3000)_{10} \end{array}$$

$$5) k = (30)_{10} = (1E)_{16}$$