Aufgabe 20

a)

$$\begin{aligned}
MCMVII &= 1000 + (1000 - 100) + 5 + 1 + 1 \\
&= 1000 + 900 + 5 + 1 + 1 \\
&= 1952 \\
MDCCCXXVII &= 1000 + 500 + 100 + 100 + 100 + 10 + 10 + 5 + 1 + 1 \\
&= 1827 \\
MDCCCVI &= 1000 + 500 + 100 + 100 + 100 + 5 + 1 \\
&= 1806 \\
MDCCXLIII &= 1000 + 500 + 100 + 100 + (50 - 10) + 1 + 1 + 1 \\
&= 1743
\end{aligned}$$

b)

$$\begin{aligned}
1843 &= 1000 + 500 + 100 + 100 + 100 + (50 - 10) + 1 + 1 + 1 \\
&= MDCCCXLIII \\
1907 &= 1000 + (1000 - 100) + 5 + 1 + 1 \\
&= MCMVII
\end{aligned}$$