

$$\begin{array}{r}
 (+5) \quad \quad 0101 \\
 - (+2) \quad -0010 \\
 \hline
 (+3)
 \end{array}
 \quad \Rightarrow \quad
 \begin{array}{r}
 \quad \quad 0101 \\
 + 1110 \\
 \hline
 10011
 \end{array}$$

↑
ignore

$$\begin{array}{r}
 (-5) \quad \quad 1011 \\
 - (+2) \quad -0010 \\
 \hline
 (-7)
 \end{array}
 \quad \Rightarrow \quad
 \begin{array}{r}
 \quad \quad 1011 \\
 + 1110 \\
 \hline
 11001
 \end{array}$$

↑
ignore

$$\begin{array}{r}
 (+5) \quad \quad 0101 \\
 - (-2) \quad -1110 \\
 \hline
 (+7)
 \end{array}
 \quad \Rightarrow \quad
 \begin{array}{r}
 \quad \quad 0101 \\
 + 0010 \\
 \hline
 0111
 \end{array}$$

$$\begin{array}{r}
 (-5) \quad \quad 1011 \\
 - (-2) \quad -1110 \\
 \hline
 (-3)
 \end{array}
 \quad \Rightarrow \quad
 \begin{array}{r}
 \quad \quad 1011 \\
 + 0010 \\
 \hline
 1101
 \end{array}$$

Figure 3.10 Examples of 2's complement subtraction.