

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

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

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

↑
ignore

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

↑
ignore

Figure 3.9 Examples of 2's complement addition.