

$\begin{array}{r} 1001 = -7 \\ +0101 = 5 \\ \hline 1110 = -2 \end{array}$ <p>(a) $(-7) + (+5)$</p>	$\begin{array}{r} 1100 = -4 \\ +0100 = 4 \\ \hline 10000 = 0 \end{array}$ <p>(b) $(-4) + (+4)$</p>
$\begin{array}{r} 0011 = 3 \\ +0100 = 4 \\ \hline 0111 = 7 \end{array}$ <p>(c) $(+3) + (+4)$</p>	$\begin{array}{r} 1100 = -4 \\ +1111 = -1 \\ \hline 11011 = -5 \end{array}$ <p>(d) $(-4) + (-1)$</p>
$\begin{array}{r} 0101 = 5 \\ +0100 = 4 \\ \hline 1001 = \text{Overflow} \end{array}$ <p>(e) $(+5) + (+4)$</p>	$\begin{array}{r} 1001 = -7 \\ +1010 = -6 \\ \hline 10011 = \text{Overflow} \end{array}$ <p>(f) $(-7) + (-6)$</p>

Figure 9.3 Addition of Numbers in Twos Complement Representation