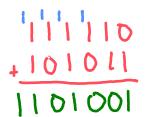Perform the appropriate binary arithmetic function for the following unsigned binary numbers:

a) 111110 + 101011

$$
\begin{array}{r}
\overset{1\;1\;1\;\;1}{111110} \\
+\;101011 \\
\hline
1101001
\end{array}
$$

b) 111110 − 101011

$$
\begin{array}{r}
\overset{\;\;\;1\;1\;\;}{111110} \\
-\;101011 \\
\hline
010011
\end{array}
$$

c) 111110 × 101011

$$
\begin{array}{r}
111110 \\
\times\;101011 \\
\hline
111110 \\
111110 \\
000000 \\
111110 \\
000000 \\
111110 \\
\hline
10100110101010
\end{array}
$$