

4.5

$$V = \overline{r_z} x_7 y_7 + r_7 \overline{x_7} \overline{y_7}$$

Tolkning: om resultaten MSB=1: $x_7 = y_7 = 0$
 $MSB = 0: x_7 = y_7 = 1$

a)

$$\begin{array}{r} 0010\overset{1}{0}100 \\ + 0100\overset{0}{0}100 \\ \hline 01101000 \end{array}$$

$$\begin{aligned} N &= 0 \\ V &= 0 \\ Z &= 0 \end{aligned}$$

b)

$$\begin{array}{r} \overset{1}{1}\overset{1}{0}\overset{1}{1}\overset{1}{1}\overset{1}{1}100 \\ + 010000100 \\ \hline 11000000000 \end{array}$$

$$\begin{aligned} N &= 0 \\ V &= 0 \\ Z &= 1 \end{aligned}$$

c)

$$\begin{array}{r} 100000\overset{1}{0}1 \\ + 1000000001 \\ \hline 11000000010 \end{array}$$

$$\begin{aligned} N &= 0 \\ V &= 1 \\ Z &= 0 \end{aligned}$$

d)

$$\begin{array}{r} 0100101010 \\ + 0011010101 \\ \hline 0111111111 \end{array}$$

$$\begin{aligned} N &= 0 \\ V &= 0 \\ Z &= 0 \end{aligned}$$

e)

$$\begin{array}{r} \overset{1}{1}10\overset{1}{0}\overset{1}{1}010 \\ + 0100101010 \\ \hline 1001010100 \end{array}$$

$$\begin{aligned} N &= 1 \\ V &= 1 \\ Z &= 0 \end{aligned}$$