



Exercise 4B

Q4

Answer :

i)

$$\begin{array}{r} -206 \\ +98 \\ \hline -108 \end{array}$$

Since we are adding a negative number with a positive number,
we shall subtract the smaller number, i.e. 98 from the greater number, i.e. 206
 $206 - 98 = 108$

Since the greater number is negative, the sign of the result will be negative.
So, the answer will be -108

ii)

$$\begin{array}{r} 178 \\ -69 \\ \hline 109 \end{array}$$

Since we are adding a negative number with a positive number,
we shall subtract the smaller number, i.e. 69, from the greater number, i.e. 178
 $178 - 69 = 109$

Since the greater number is positive, the sign of the result will be positive.
So, the answer will be 109

(iii)

$$\begin{array}{r} 312 \\ -103 \\ \hline 209 \end{array}$$

Since we are adding a negative number with a positive number,
we shall subtract the smaller number, i.e. -103, from the greater number, i.e.
312

$$312 - 103 = 209$$

Since the greater number is positive, the sign of the result will be positive.
So, the answer will be 209

(iv)

$$\begin{array}{r} -493 \\ +289 \\ \hline -204 \end{array}$$

Since we are adding a negative number with a positive number,
we shall subtract the smaller number, i.e. 289, from the greater number, i.e.
493.

$$493 - 289 = 204$$

Since the greater number is negative, the sign of the result will be negative.

So, the answer will be -204

(vi) -36 and 100

$$\begin{array}{r} 100 \\ -36 \\ \hline 64 \end{array}$$

(vii) 3002 and -888

$$\begin{array}{r} 3002 \\ -888 \\ \hline 2114 \end{array}$$

(viii) -18 , $+25$ and -37

$$\begin{aligned} & 25 + (-18) + (-37) \\ &= 25 - (18 + 37) \\ &= 25 - 55 \\ &= -30 \end{aligned}$$

(ix) -312 , 39 and 192

$$\begin{aligned} & 39 + 192 + (-312) \\ &= 39 + 192 - 312 \\ &= 231 - 312 \\ &= -81 \end{aligned}$$

(x) -51 , -203 , 36 and -28

$$\begin{aligned} & 36 + (-51) + (-203) + (-28) \\ &= 36 - (51 + 203 + 28) \\ &= 36 - 282 \\ &= -246 \end{aligned}$$

Answer :

(i) $-57 + 57 = 0$

So, the additive inverse of -57 is 57 .

(ii) $183 - 183 = 0$

So, the additive inverse of 183 is -183 .

(iii) $0 + 0 = 0$

So, the additive inverse of 0 is 0 .

(iv) $-1001 + 1001 = 0$

So, the additive inverse of -1001 is 1001 .

(v) $2054 - 2054 = 0$

So, the additive inverse of 2054 is -2054

***** END *****