

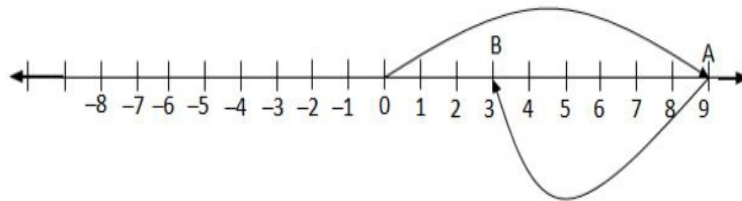


Exercise 4B

Q1

Answer :

i) On the number line, we start from 0 and move 9 steps to the right to reach a point A. Now, starting from A, we move 6 steps to the left to reach point B.



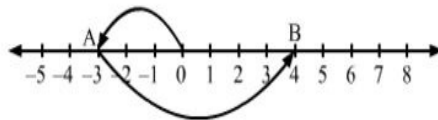
B represents the integer 3.

$$\therefore 9 + (-6) = 3$$

(ii) On the number line, we start from 0 and move 3 steps to the left to reach point A. Now, starting from A, we move 7 steps to the right to reach point B.

B represents the integer 4.

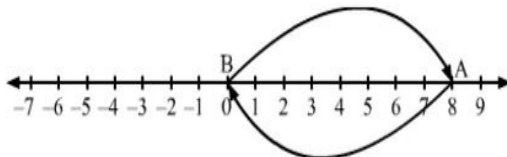
$$\therefore (-3) + 7 = 4$$



(iii) On the number line, we start from 0 and move 8 steps to the right to reach point A. Now, starting from A, we move 8 steps to the left to reach point B.

B represents the integer 0.

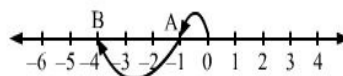
$$\therefore 8 + (-8) = 0$$



(iv) On the number line, we start from 0 and move 1 step to the left to reach point A. Now, starting from A, we move 3 steps to the left to reach point B.

B represents the integer -4.

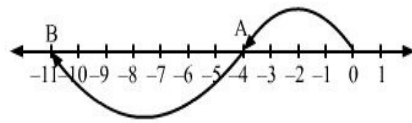
$$\therefore (-1) + (-3) = -4$$



(v) On the number line, we start from 0 and move 4 steps to the left to reach point A. Now, starting from A, we move 7 steps to the left to reach point B.

B represents the integer -11.

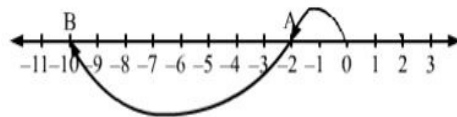
$$\therefore (-4) + (-7) = -11$$



(vi) On the number line, we start from 0 and move 2 steps to the left to reach point A. Now, starting from A, we move 8 steps to the left to reach point B.

B represents the integer -10.

$$\therefore (-2) + (-8) = -10$$

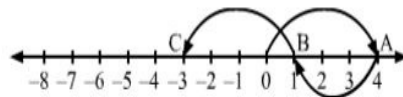


(vii) On the number line, we start from 0 and move 3 steps to the right to reach point A.

Now, starting from A, we move 2 steps to the left to reach point B. Again, starting from B, we move 4 steps to the left to reach point C.

C represents the integer -3.

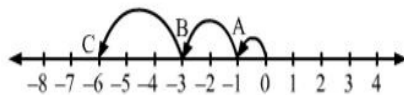
$$\therefore 3 + (-2) + (-4) = -3$$



(viii) On the number line, we start from 0 and move 1 step to the left to reach point A. Now, starting from A, we move 2 steps to the left to reach point B. Again, starting from B, we move 3 steps to the left to reach point C.

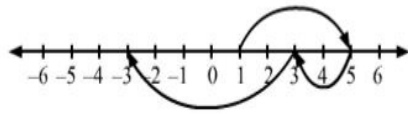
C represents the integer -6.

$$\therefore (-1) + (-2) + (-3) = -6$$



Q2

(ix) On the number line, we start from 0 and move 5 steps to the right to reach point A.
 Now, starting from A, we move 2 steps to the left to reach point B. Again, starting from B, we move 6 steps to the left to reach point C.
 C represents the integer -3.
 $\therefore 5 + (-2) + (-6) = -3$



(iv)
 $(-13) + 25$
 $= -13 + 25$
 $= 12$

(v)
 $8 + (-17)$
 $= 8 - 17$
 $= -9$

(v)
 $2 + (-12)$
 $= 2 - 12$
 $= -10$

***** END *****