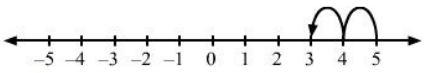
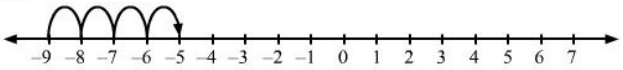
Negative Numbers and Integers Ex 5.2 Q1

Answer :

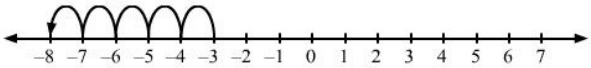
(i) If we start from 5 and move 2 units to the left of 5, we will obtain 3, as shown on the number line.



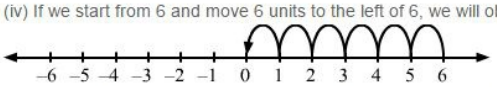
(ii) If we start from -9 and move 4 units to the right of -9, we will obtain -5, as shown on the number line.



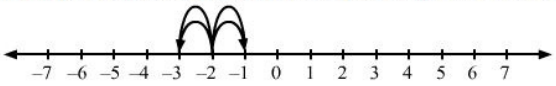
(iii) If we start from -3 and move 5 units to the left of -3, we will obtain -8, as shown on the number line.



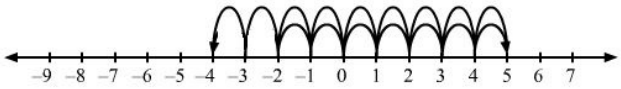
(iv) If we start from 6 and move 6 units to the left of 6, we will obtain 0, as shown on the number line.



(v) If we start from -1 and move 2 units to the left of -1, we will obtain -3; and then if we start from -3 and move 2 units to the left, we will obtain -1, as shown on the number line.



(vi) If we start from -2 and move 7 units to the right, we will obtain 5; and then if we start from 5 and move 9 units to the left, we will obtain -4, as shown on the number line.



Negative Numbers and Integers Ex 5.2 Q2

Answer :

(i) Here, we have to add integers of unlike sign , therefore we find the difference of their absolute values & assign the sign of the addend having greater absolute value

$(-557)+488$

$=-[|-557|-|488|]$ (As, $|-557|=557, |488|=488$)

$=-[557-488]$

$=-69$

(ii) Here, we have to add integers that are both negative.

$(-552)+(-160)$

$=-[|-552|+|-160|]$ (As, $|-552|=552, |-160|=160$)

$=-[552+160]$

$=-682$

(iii) Here, we have to add integers of unlike signs , therefore we find the difference of their absolute values & assign sign of the addend having greater absolute value .

$(2567)+(-325)$

$=[|2567|-|-325|]$ (As, $|2567|=2567, |-325|=325$)

$=[2567-325]$

$=2242$

(iv) Here, we have to add integers of unlike sign , therefore we find the difference of their absolute values & assign the sign of the addend having greater absolute value .

$(-10025)+139$
$=-[|-10025|-|139|]$ $(As, |-10025|=10025, |139|=139)$
$=-[10025-139]$
$=\ -9886$

(v) Here, we have to add integers of unlike signs , therefore we find the difference of their absolute values & assign sign of the addend having greater absolute value .

$(2547)+(-2548)$
$=-[|2548|-|-2547|]$ $(\text{As}, |2548|=2548, |-2547|=2547)$
$=-[2548-2547]$
$=-1$

(vi) Here, we have to add integers of unlike signs , therefore we find the difference of their absolute values & assign sign of the addend having greater absolute value .

$(2884)+(-2884)$
$=[|2884|-|-2884|]$ $(\text{As}, |2884|=2884, |-2884|=2884)$
$=[2884-2884]$
$=0$

********** END **********