



Negative Numbers and Integers Ex 5.3 Q5

Answer :

Let x be an integer such that $|x| < 5$.

$$\therefore -5 < x < 5$$

$$\Rightarrow x =] -4, 4 [$$

These are the nine integers whose absolute values are less than 5, namely, -4, -3, -2, -1, 0, 1, 2, 3 and 4.

Negative Numbers and Integers Ex 5.3 Q6

Answer :

(i) $|4| + |2| = 6 = |4| + |2|$; True

(ii) $|2 - 4| = |-2| = 2 \neq 2 + 4 = 6$; False

(iii) $|4 - 2| = 2 = |4| - |2|$; True

(iv) $|(-2) + (-4)| = |-6| = 6 = |-2| + |(-4)|$; True

Negative Numbers and Integers Ex 5.3 Q7

Answer :

(i) (6, -6), (4, -4), (2, -2), (0, 0), (-2, 2), (-4, 4) and (-6, 6).

(ii) $(-4) + (-2) = -6 = (-2) + (-4)$; Yes

(iii) $0 + (-6) = -6$; Yes

+	-6	-4	-2	0	2	4	6
6	0	2	4	6	8	10	12
4	-2	0	2	4	6	8	10
2	-4	-2	0	2	4	6	8
0	-6	-4	-2	0	2	4	6
-2	-8	-6	-4	-2	0	2	4
-4	-10	-8	-6	-4	-2	0	2
-6	-12	-10	-8	-6	-4	-2	0

Negative Numbers and Integers Ex 5.3 Q8

Answer :

$$(i) \ x + 1 = 0 \Rightarrow x = -1$$

$$(ii) \ x + 5 = 0 \Rightarrow x = -5$$

$$(iii) \ -3 + x = 0 \Rightarrow x = 3$$

$$(iv) \ x + (-8) = 0 \Rightarrow x = 8$$

$$(v) \ 7 + x = 0 \Rightarrow x = -7$$

$$(vi) \ x + 0 = 0 \Rightarrow x = 0$$

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