Negative Numbers and Integers Ex 5.4 Q8

Answer :

(i) –8 – 24 + 31 – 26 – 28 + 7 + 19 – 18 – 8 + 33

= (–8 – 24) + (31 – 26) + (–28 + 7) + (19 – 18) + (–8 + 33)

= (–32 + 5 – 21) + (1 + 25)

= –48 + 26

= –22

(ii) –26 – 20 + 33 – (–33) + 21 + 24 – (–25) – 26 – 14 – 34

= (–26 – 20) + (33 + 33) + (21 + 24) + (25 – 26) + (–14 – 34)

= (–46 + 66) + (45 – 1 – 48)

= 20 – 4

= 16

Negative Numbers and Integers Ex 5.4 Q9

Answer :

1 – 2 + 3 – 4 + 5 – 6 + 7 – 8 + 9 – 10 + 11 – 12 + 13 – 14 + 15 – 16

= (1 + 3 + 5 + 7 + 9 + 11 + 13 + 15) – (2 + 4 + 6 + 8 + 10 + 12 + 14 + 16)

= 64 – 72

= –8

Negative Numbers and Integers Ex 5.4 Q10

Answer :

(i) If the number of terms is 10, then 5 + (–5) + 5 + (–5) + 5 + (–5) + 5 + (–5) + 5 + (–5) = 0.

(ii) If the number of terms is 11, then 5 + (–5) + 5 + (–5) + 5 + (–5) + 5 + (–5) + 5 + (–5) + 5 = 5.

Negative Numbers and Integers Ex 5.4 Q11

Answer :

(i) (–6) + (–9) = –15 < (–6) – (–9) = –6 + 9 = 3

(ii) (–12) – (–12) = –12 + 12 = 0 > (–12) + (–12) = –12 – 12 = –24

(iii) (–20) – (–20) = –20 + 20 = 0 > 20 – 65 = –45

(iv) 28 – (–10) = 28 + 10 = 38 < –16 – (–76) = –16 + 76 = 60

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