

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

- (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 \*\*\*\*\*\*\*