Exercise 1A

= -154

Subtracting the sum from −34, we get

−34 − (−154)

= (−34)+ 154

= 120

Solution 06:

Answer :

First, we will calculate the sum of 38 and −87.

38 + (−87) = −49

Now, subtracting −134 from the sum, we get:

−49 − (−134)

=(−49) + 134

= 85

Solution 07:

Answer :

(i) −41 (∵ Associative property)

(ii) −83 (∵ Associative property)

(iii) 53 (∵ Commutative property)

(iv) −76 (∵ Commutative property)

(v) 0 (∵ Additive identity)

(vi) 83 (∵ Additive inverse)

(vii) $(-60) - (-59) = -1$

(viii) $(-40) - (-31) = -9$

Solution 08:

Answer :

$\{-13 - (-27)\} + \{-25 - (-40)\}$
$= \{-13 + 27\} + \{-25 + 40\}$
$= 14 + 15$
$= 29$

Solution 09:

Answer :

$36 - (-64) = 36 + 64 = 100$

Now, $(-64) - 36 = (-64) + (-36) = -100$

Here, $100 \neq -100$

Thus, they are not equal.

Solution 10:

Answer :

$(a + b) + c = (-8 + (-7)) + 6 = -15 + 6 = -9$

$a + (b + c) = -8 + (-7 + 6) = -8 + (-1) = -9$

Hence, $(a + b) + c = a + (b + c)$ [i.e., Property of Associativity]

Solution 11:

Answer :

Here, (a − b) = −9 − (−6) = −3

Similarly, (b − a) = −6 − (−9) = 3

∴ $(a-b) \neq (b-a)$

Solution 12:

Answer :

Let the other integer be a. Then, we have:

$53 + a = -16$

$\Rightarrow a = -16 - 53 = -69$

∴ The other integer is −69.

Solution 13:

Answer :

Let the other integer be a.

Then, $-31 + a = 65$

$\Rightarrow a = 65 - (-31) = 96$

∴ The other integer is 96.

Solution 14:

Answer :

We have:

$a - (-6) = 4$

$\Rightarrow a = 4 + (-6) = -2$

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