



Rational Numbers Ex 1.3 Q14

**Answer :**

Let  $x$  be subtracted.

$$\therefore \left( \frac{3}{4} - \frac{2}{3} \right) - x = \frac{-1}{6}$$

$$\Rightarrow \left( \frac{9}{12} - \frac{8}{12} \right) - x = \frac{-1}{6}$$

$$\Rightarrow \left( \frac{9-8}{12} \right) - x = \frac{-1}{6}$$

$$\Rightarrow x = \frac{1}{12} - \frac{-1}{6}$$

$$\Rightarrow x = \frac{1}{12} - \frac{-2}{12}$$

$$\Rightarrow x = \frac{1 - (-2)}{12}$$

$$\Rightarrow x = \frac{1+2}{12}$$

$$\Rightarrow x = \frac{3}{12}$$

$$\Rightarrow x = \frac{1}{4}$$

Rational Numbers Ex 1.3 Q15

**Answer :**

**(i)**

$$\frac{-4}{13} - \frac{-3}{26} = \frac{-8}{26} - \frac{-3}{26} = \frac{-8 - (-3)}{26} = \frac{-8 + 3}{26} = \frac{-5}{26}$$

**(ii)**  $\frac{-9}{14} + x = -1$

$$\Rightarrow x = -1 - \frac{-9}{14}$$

$$\Rightarrow x = \frac{-14}{14} - \frac{-9}{14}$$

$$\Rightarrow x = \frac{-14 - (-9)}{14}$$

$$\Rightarrow x = \frac{-14 + 9}{14}$$

$$\Rightarrow x = \frac{-5}{14}$$

$$\left( \text{iii} \right) \quad \frac{-7}{9} + x = 3$$

$$\Rightarrow x = 3 - \frac{-7}{9}$$

$$\Rightarrow x = \frac{27}{9} - \frac{-7}{9}$$

$$\Rightarrow x = \frac{27 - (-7)}{9}$$

$$\Rightarrow x = \frac{27 + 7}{9}$$

$$\Rightarrow x = \frac{34}{9}$$

$$\left( \text{iv} \right) \quad x + \frac{15}{23} = 4$$

$$\Rightarrow x = 4 - \frac{15}{23}$$

$$\Rightarrow x = \frac{92}{23} - \frac{15}{23}$$

$$\Rightarrow x = \frac{92 - 15}{23}$$

$$\Rightarrow x = \frac{77}{23}$$

\*\*\*\*\* END \*\*\*\*\*