Rational Numbers Ex 1.3 Q6

Answer :

It is given that *the* sum of two rational numbers is -8, where one of the number*s* is $\frac{-15}{7}$.

Let the other rational number be x.

$\therefore x + \left(\frac{-15}{7}\right) = -8$

$\Rightarrow x = \frac{-8}{1} - \frac{-15}{7}$

$\Rightarrow x = \frac{-56}{7} - \frac{-15}{7}$

$= \frac{-56-(-15)}{7}$

$= \frac{-56+15}{7}$

$= \frac{-41}{7}$

Therefore, the other rational number is $\frac{-41}{7}$.

Rational Numbers Ex 1.3 Q7

Answer :

Let x be added to $\frac{-7}{8}$ so as to get $\frac{5}{9}$.

$\therefore x + \frac{-7}{8} = \frac{5}{9}$

$\Rightarrow x = \frac{5}{9} - \frac{-7}{8}$

$\Rightarrow x = \frac{40}{72} - \frac{-63}{72}$

$\Rightarrow x = \frac{40-(-63)}{72}$

$\Rightarrow x = \frac{40+63}{72} = \frac{103}{72}$

Rational Numbers Ex 1.3 Q8

Answer :

Let x be added.

$$\therefore x + \frac{-5}{11} = \frac{26}{33}$$

$$\Rightarrow x = \frac{26}{33} - \frac{-5}{11}$$

$$\Rightarrow x = \frac{26}{33} - \frac{-15}{33}$$

$$\Rightarrow x = \frac{26-(-15)}{33}$$

$$\Rightarrow x = \frac{26+15}{33}$$

$$\Rightarrow x = \frac{41}{33}$$

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