



Operations on Rational Numbers Ex 5.2 Q6

Answer :

$$\text{First number} = \frac{-15}{7}$$

Let the second number = x .

Then, according to the question, we have

$$\frac{-15}{7} + x = -8$$

$$\Rightarrow x = \frac{-8}{1} - \frac{-15}{7} = \frac{-8 \times 7 + 15}{7} = \frac{-56 + 15}{7} = \frac{-41}{7}$$

Operations on Rational Numbers Ex 5.2 Q7

Answer :

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

Then, according to the question, we have

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

$$\Rightarrow x = \frac{5}{9} - \frac{-7}{8} = \frac{5 \times 8 + 7 \times 9}{72} = \frac{40 + 63}{72} = \frac{103}{72}$$

Operations on Rational Numbers Ex 5.2 Q8

Answer :

Let x be added to $\frac{-5}{11}$ to get $\frac{26}{33}$.

Then, according to the question, we have

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

$$\begin{aligned} \Rightarrow x &= \frac{26}{33} - \frac{-5}{11} \\ &= \frac{26 + 5 \times 3}{33} \\ &= \frac{26 + 15}{33} \\ &= \frac{41}{33} \end{aligned}$$

Operations on Rational Numbers Ex 5.2 Q9

Answer :

Let x be added to $\frac{-5}{7}$ to get $\frac{-2}{3}$.

Then, according to the question, we have

$$x + \frac{-5}{7} = \frac{-2}{3}$$

$$\Rightarrow x = \frac{-2}{3} - \frac{-5}{7} = \frac{-2 \times 7 + 5 \times 3}{21} = \frac{-14 + 15}{21} = \frac{1}{21}$$

Operations on Rational Numbers Ex 5.2 Q10

Answer :

Let x be the number that should be subtracted from $\frac{-5}{3}$ to get $\frac{5}{6}$.

Then, according to the question, we have

$$\frac{-5}{3} - x = \frac{5}{6}$$

$$\Rightarrow x = \frac{-5}{3} - \frac{5}{6} = \frac{-5 \times 2}{3 \times 2} - \frac{5}{6} = \frac{-10 - 5}{6} = \frac{-15}{6} = \frac{-5}{2}$$

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