



Rational Numbers Ex 1.3 Q9

Answer :

Let x be added.

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

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

$$\Rightarrow x = \frac{-14}{21} - \frac{-15}{21}$$

$$\Rightarrow x = \frac{-14 - (-15)}{21}$$

$$\Rightarrow x = \frac{-14 + 15}{21}$$

$$\Rightarrow x = \frac{1}{21}$$

Rational Numbers Ex 1.3 Q10

Answer :

Let x be subtracted.

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

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

$$\Rightarrow x = \frac{-10}{6} - \frac{5}{6}$$

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

Rational Numbers Ex 1.3 Q11

Answer :

Let, x be subtracted.

$$\therefore \frac{3}{7} - x = \frac{5}{4}$$

$$\Rightarrow x = \frac{3}{7} - \frac{5}{4}$$

$$\Rightarrow x = \frac{12}{28} - \frac{35}{28}$$

$$\Rightarrow x = \frac{12-35}{28} = \frac{-23}{28}$$

Rational Numbers Ex 1.3 Q12

Answer :

Let x be added.

$$\therefore x + \left(\frac{2}{3} + \frac{3}{5} \right) = \frac{-2}{15}$$

$$\Rightarrow x + \left(\frac{10}{15} + \frac{9}{15} \right) = \frac{-2}{15}$$

$$\Rightarrow x + \left(\frac{10+9}{15} \right) = \frac{-2}{15}$$

$$\Rightarrow x = \frac{-2}{15} - \frac{19}{15}$$

$$\Rightarrow x = \frac{-2-19}{15}$$

$$\Rightarrow x = \frac{-21}{15}$$

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

Answer :

Let x be added.

$$\therefore x + \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{5} \right) = 3$$

$$\Rightarrow x + \left(\frac{15}{30} + \frac{10}{30} + \frac{6}{30} \right) = 3$$

$$\Rightarrow x + \left(\frac{15+10+6}{30} \right) = 3$$

$$\Rightarrow x + \frac{31}{30} = 3$$

$$\Rightarrow x = \frac{3}{1} - \frac{31}{30}$$

$$\Rightarrow x = \frac{90}{30} - \frac{31}{30}$$

$$\Rightarrow x = \frac{90-31}{30}$$

$$\Rightarrow x = \frac{59}{30}$$

***** END *****