



Operations on Rational Numbers Ex 5.2 Q1

**Answer :**

$$(i) \quad \frac{5}{8} - \frac{3}{8} = \frac{2}{8}$$

$$(ii) \quad \frac{4}{9} - \frac{-7}{9} = \frac{11}{9}$$

$$(iii) \quad \frac{-9}{11} - \frac{-2}{11} = \frac{-9+2}{11} = \frac{-7}{11}$$

$$(iv) \quad \frac{-4}{13} - \frac{11}{13} = \frac{-4-11}{13} = \frac{-15}{13}$$

Operations on Rational Numbers Ex 5.2 Q2

**Answer :**

$$(i) \quad \frac{2}{3} - \frac{3}{5} = \frac{2 \times 5 - 3 \times 3}{15} = \frac{10-9}{15} = \frac{1}{15}$$

$$(ii) \quad -\frac{4}{7} - \frac{2}{-3} = \frac{-4 \times 3 + 2 \times 7}{21} = \frac{-12+14}{21} = \frac{2}{21}$$

$$(iii) \quad \frac{4}{7} - \frac{-5}{-7} = \frac{4-5}{7} = \frac{-1}{7}$$

$$(iv) \quad -\frac{2}{1} - \frac{5}{9} = \frac{-2 \times 9 - 5}{9} = \frac{-18-5}{9} = \frac{-23}{9}$$

Operations on Rational Numbers Ex 5.2 Q3

**Answer :**

First number =  $\frac{1}{3}$

Let the second number =  $x$ .

According to the question, we have

$$\frac{1}{3} + x = \frac{5}{9}$$

$$\Rightarrow x = \frac{5}{9} - \frac{1}{3} = \frac{5-1 \times 3}{9} = \frac{5-3}{9} = \frac{2}{9}$$

Operations on Rational Numbers Ex 5.2 Q4

**Answer :**

First number =  $\frac{-12}{3}$

Let the second number =  $x$ .

Then, according to the question, we have

$$\frac{-12}{3} + x = \frac{-1}{3}$$

$$\Rightarrow x = \frac{-1}{3} - \frac{-12}{3} = \frac{-1+12}{3} = \frac{11}{3}$$

Operations on Rational Numbers Ex 5.2 Q5

**Answer :**

First number =  $-5$

Let the second number =  $x$ .

Then, according to the question, we have

$$-5 + x = \frac{-4}{3}$$

$$\Rightarrow x = \frac{-4}{3} - \frac{-5}{1} = \frac{-4+5 \times 3}{3} = \frac{-4+15}{3} = \frac{11}{3}$$

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