Rational Numbers Ex 1.3 Q1

## Answer :

**(i)**

$$\frac{5}{8} - \frac{3}{8} = \frac{5-3}{8} = \frac{2}{8} = \frac{1}{4}$$

**(ii)**

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

**(iii)**

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

**(iv)**

$$\frac{-4}{13} - \frac{11}{13} = \frac{-4-11}{13} = \frac{-15}{13}$$

**(v)**

$$\frac{-3}{8} - \frac{1}{4} = \frac{-3-2}{8} = \frac{-5}{8}$$

**(vi)**

$$\frac{5}{6} - \frac{-2}{3} = \frac{5}{6} - \frac{-4}{6} = \frac{5-(-4)}{6} = \frac{5+4}{6} = \frac{9}{6} = \frac{3}{2}$$

**(vii)**

$$\frac{-13}{14} - \frac{-6}{7} = \frac{-13-(-12)}{14} = \frac{-13+12}{14} = \frac{-1}{14}$$

**(viii)**

$$\frac{-7}{22} - \frac{-8}{33} = \frac{-21}{66} - \frac{-16}{66} = \frac{(-21)-(-16)}{66} = \frac{-21+16}{66} = \frac{-5}{66}$$

Rational Numbers Ex 1.3 Q2

**Answer :**

**(i)**

$$\frac{2}{3} - \frac{3}{5} = \frac{10}{15} - \frac{9}{15} = \frac{10-9}{15} = \frac{1}{15}$$

**(ii)**

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

**(iii)**

$$\frac{4}{7} - \frac{-5}{-7} = \frac{4-5}{7} = \frac{-1}{7}$$

**(iv)**

$$-2 - \frac{5}{9} = \frac{-18}{9} - \frac{5}{9} = \frac{-18-5}{9} = \frac{-23}{9}$$

**(v)**

$$\frac{-3}{-8} - \frac{-2}{7} = \frac{21}{56} - \frac{-16}{56} = \frac{21-(-16)}{56} = \frac{21+16}{56} = \frac{37}{56}$$

**(vi)**

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

**(vii)**

$$\frac{-5}{14} - \frac{-2}{7} = \frac{-5}{14} - \frac{-4}{14} = \frac{-5-(-4)}{14} = \frac{-5+4}{14} = \frac{-1}{14}$$

**(viii)**

$$\frac{13}{15} - \frac{12}{25} = \frac{65}{75} - \frac{36}{75} = \frac{65-36}{75} = \frac{29}{75}$$

**(ix)**

$$\frac{-6}{13} - \frac{-7}{13} = \frac{-6-(-7)}{13} = \frac{-6+7}{13} = \frac{1}{13}$$

**(x)**

$$\frac{7}{24} - \frac{19}{36} = \frac{21}{72} - \frac{38}{72} = \frac{21-38}{72} = \frac{-17}{72}$$

**(xi)**

$$\frac{5}{63} - \frac{-8}{21} = \frac{5}{63} - \frac{-24}{63} = \frac{5-(-24)}{63} = \frac{5+24}{63} = \frac{29}{63}$$

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