

§3.4. Сложение и вычитание дробей

$$\text{a) } -\frac{1}{13} - \frac{-9}{13} = \frac{-1 - (-9)}{13} = \frac{-1 + 9}{13} = \frac{8}{13}$$

$$-\frac{11}{12} - \frac{1}{12} =$$

$$\text{б) } -\frac{3}{14} - \frac{-5}{14} =$$

$$-\frac{13}{14} - \frac{2}{14} =$$

$$\frac{-(13+2)}{14} = \frac{-15}{14} =$$

$$= -\frac{15}{14} = -1\frac{1}{14}$$

$$\text{в) } -\frac{5}{21} - \frac{-11}{21} = \frac{-5 - (-11)}{21} = \frac{-5 + 11}{21} = \frac{6}{21}$$

$$= \frac{2}{7}$$

$$-\frac{16}{17} - \frac{1}{17} =$$

$$\text{а) } \frac{-1}{3} + \frac{-1}{6} =$$

$$\frac{-1}{2} + \frac{1}{4} =$$

$$\frac{1}{16} + \frac{-1}{8} =$$

$$\text{а) } \frac{7}{10} - \frac{2}{15} = \frac{21}{30} - \frac{4}{30} = \frac{21-4}{30} = \frac{17}{30}$$

$$-\frac{3}{10} - \frac{7}{15} =$$

$$-\frac{3}{20} - \frac{5}{24} =$$

$$\frac{3}{11} - \frac{-5}{14} =$$

$$\frac{2}{15} - \frac{-7}{12} =$$

$$\text{a) } \frac{6}{7} + \left(-\frac{9}{7}\right) =$$

$$-\frac{5}{11} + \left(-\frac{6}{11}\right) =$$

$$\frac{5}{11} - \frac{6}{11} = \frac{-5-6}{11} = \frac{-11}{11} = -1$$

$$-\frac{3}{7} + \frac{4}{7} =$$

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

$$-\frac{5}{9} + \frac{6}{9} =$$

$$\text{B) } \frac{3}{11} + \left(-\frac{9}{11}\right) =$$

$$\frac{-11}{25} - \left(-\frac{4}{25}\right) =$$

$$-\frac{8}{13} + \frac{11}{13} =$$

$$\text{a) } -\frac{1}{7} - \frac{5}{14} - \frac{6}{21} = -\frac{2}{14} - \frac{5}{14} - \frac{6}{21} = \frac{-2-5}{14}$$

$$-\frac{6}{21} = \frac{-7}{14} - \frac{6}{21} = \frac{-1^{(21)} 6^{(2)}}{2 \cdot 21} = \frac{-21}{42} - \frac{12}{42}$$

$$= \frac{-21-12}{42} = \frac{-33}{42} = \frac{-11}{14} = -\frac{11}{14}$$

$$\frac{29}{36} - \frac{7}{9} - \frac{3}{4} =$$

$$\frac{11}{24} - \frac{5}{16} + \frac{7}{8} =$$