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$$1) \frac{4c}{a+b} + \frac{a}{b-c} = \frac{4 \cdot \frac{7}{3}}{\frac{2}{3} + 2} + \frac{\frac{2}{3}}{2 - \frac{7}{3}} = \frac{\frac{28}{3}}{\frac{8}{3}} + \frac{\frac{2}{3}}{-\frac{1}{3}} = \frac{28}{3} \cdot \frac{3}{8} - \frac{2}{3} \cdot \frac{3}{1} = \frac{7}{2} - 2 = \frac{3}{2}$$

$$2) \frac{ab}{5} - \frac{3a-b}{4a-b} = \frac{\frac{2}{3} \cdot \frac{5}{3}}{5} - \frac{3 \cdot \frac{2}{3} - \frac{5}{3}}{4 \cdot \frac{2}{3} - \frac{5}{3}} = \frac{\frac{10}{9}}{5} - \frac{2 - \frac{5}{3}}{\frac{8}{3} - \frac{5}{3}} = \frac{\frac{10}{9}}{5} - \frac{\frac{1}{3}}{1} \\ = \frac{10}{9} \cdot \frac{1}{5} - \frac{1}{3} \cdot \frac{1}{1} = \frac{2}{9} - \frac{1}{3} = -\frac{1}{9}$$

$$3) \frac{1 - \frac{x-2y}{3}}{\frac{13x}{5} - 2,3} = \frac{1 - \frac{2-2 \cdot 2,4}{3}}{\frac{13 \cdot 2}{5} - 2,3} = \frac{1 - \frac{2-2 \cdot \frac{12}{5}}{3}}{\frac{13 \cdot 2}{5} - \frac{23}{10}} = \frac{1 - \frac{2 - \frac{24}{5}}{3}}{\frac{26}{5} - \frac{23}{10}} = \frac{1 - \frac{(-\frac{14}{5})}{3}}{\frac{29}{10}} \\ = \frac{1 + \frac{14}{15} \cdot \frac{1}{3}}{\frac{29}{10}} = \frac{\frac{29}{15}}{\frac{29}{10}} = \frac{29}{15} \cdot \frac{10}{29} = \frac{2}{3}$$

$$4) \frac{\frac{2x - \frac{y^2}{3}}{\frac{y}{x} - 2}}{\frac{(-4)}{(-\frac{2}{3})} - 2} = \frac{2 \cdot (-\frac{2}{3}) - \frac{(-4)^2}{3}}{\frac{(-4)}{(-\frac{2}{3})} - 2} = \frac{-\frac{4}{3} - \frac{16}{3}}{4 \cdot \frac{3}{2} - 2} = \frac{-\frac{20}{3}}{6 - 2} = \frac{-\frac{20}{3}}{4} = -\frac{20}{3} \cdot \frac{1}{4} = -\frac{5}{3}$$

$$5) \frac{\frac{2x-4}{3} - 2,6}{0,3 - \frac{2x^2}{25}} = \frac{\frac{2 \cdot (-\frac{5}{2}) - 4}{3} - \frac{13}{5}}{\frac{3}{10} - \frac{2 \cdot (-\frac{5}{2})^2}{25}} = \frac{\frac{-5-4}{3} - \frac{13}{5}}{\frac{3}{10} - \frac{2 \cdot \frac{25}{4}}{25}} = \frac{-3 - \frac{13}{5}}{\frac{3}{10} - 2 \cdot \frac{25}{4} \cdot \frac{1}{25}} \\ = \frac{-\frac{28}{5}}{\frac{3}{10} - \frac{1}{2}} = \frac{-\frac{28}{5}}{-\frac{1}{5}} = (-\frac{28}{5}) \cdot (-\frac{5}{1}) = 28$$

$$6) 10^6 + \frac{a^3}{b} - \left(\frac{9a}{b}\right)^5 = 10^6 + \frac{(\frac{5}{3})^3}{\frac{3}{2}} - \left(\frac{9 \cdot \frac{5}{3}}{\frac{3}{2}}\right)^5 = 10^6 + \frac{\frac{125}{27}}{\frac{3}{2}} - \left(\frac{15}{\frac{3}{2}}\right)^5 \\ = 10^6 + \frac{125}{27} \cdot \frac{2}{3} - (15 \cdot \frac{2}{3})^5 = 10^6 + \frac{250}{81} - 10^5 \\ = 1\,000\,000 + \frac{250}{81} - 100\,000 = \frac{72\,900\,250}{81}$$