GUÍA - Operatoria de Racionales

Reduzca y simplifique lo más posible las siguientes expresiones

1 $3\frac{1}{2} - 2\frac{1}{3} + 1\frac{1}{4}$

2 $2\frac{1}{4} + 3\frac{1}{3} - 1\frac{1}{2} + 1\frac{1}{6}$

3 $1\frac{3}{4} + \frac{2}{3} - 2\frac{1}{2} + 1\frac{7}{12}$

4 $1\frac{3}{4} - \frac{1}{2} - \frac{1}{16} - \frac{1}{32} - 2\frac{1}{8}$

5 $1\frac{1}{6} - \frac{3}{2} + 2\frac{7}{12} - 4 + \frac{1}{3}$

6 $\frac{2}{9} \times \frac{7}{5} \times \frac{3}{14} \times 5$

7 $2\frac{4}{9} \times 2\frac{1}{4} \times 1\frac{3}{11} \times 1\frac{1}{3}$

8 $2 \times 7\frac{3}{5} \times 1\frac{6}{19} \times \frac{3}{4}$

9 $1\frac{1}{2} \times \frac{4}{6} \times 2\frac{2}{5} \times 2\frac{1}{2}$

10 $\left(\frac{1}{6} + \frac{2}{3}\right)\left(1 - \frac{2}{5}\right)$

11 $\left(\frac{3}{5} + \frac{1}{2} + \frac{7}{10}\right) \div \left(\frac{3}{4}\right)$

12 $\left(1\frac{1}{9}\right) \div \left(4 - 2\frac{1}{3}\right)$

13 $\left(\frac{17}{22} + 1\right) \div \left(2 - \frac{9}{11}\right)$

14 $\left(1 - \frac{1}{2}\right) \div \left(\frac{3}{4} - \frac{5}{8}\right)$

15 $\dfrac{1}{1 + \dfrac{1}{\frac{7}{2} - 3}}$

16 $1 + \dfrac{1}{1 - \dfrac{1}{1 + \dfrac{1}{1 - \frac{1}{3}}}}$

17 $\dfrac{\dfrac{1 + \frac{1}{4}}{\frac{1}{2}} - \dfrac{1 - \frac{1}{4}}{\frac{1}{3}}}{1 + \frac{2}{3}} \times \left(10\frac{1}{3} - 3\frac{2}{3}\right)$

18 $\dfrac{\dfrac{\frac{1}{6}}{\frac{1}{3}} + \dfrac{\frac{1}{5}}{\frac{1}{2}} - \dfrac{\frac{1}{3}}{\frac{1}{2}}}{\dfrac{\frac{1}{4}}{\frac{1}{2}} + \dfrac{\frac{1}{3}}{\frac{1}{4}} - \dfrac{\frac{1}{5}}{\frac{1}{2}}}$

19 $1 - \dfrac{1}{1 + \dfrac{2}{3 - \frac{1}{2}}} + \dfrac{1}{1 + \dfrac{1}{1 + \frac{1}{4}}}$