

FRACCIONES

Problema 20:

Resolver

$$\left(\frac{1}{3\frac{1}{5}} - \frac{2\frac{1}{4}}{9} + \frac{3\frac{5}{8}}{2} + \frac{4}{4\frac{4}{7}} \right)$$

Solución Problema 20:

Convertimos los números mixtos en fracciones ordinarias

$$3\frac{1}{5} = \frac{15 + 1}{5} = \frac{16}{5}$$

$$2\frac{1}{4} = \frac{8 + 1}{4} = \frac{9}{4}$$

$$3\frac{5}{8} = \frac{24 + 5}{8} = \frac{29}{8}$$

$$4\frac{4}{7} = \frac{28 + 4}{7} = \frac{32}{7}$$

Sustituimos sus valores en la fracción original

$$\left(\frac{1}{\frac{16}{5}} - \frac{\frac{9}{4}}{9} + \frac{\frac{29}{8}}{2} + \frac{\frac{4}{7}}{\frac{32}{7}} \right) = \left(\frac{5}{16} - \frac{\frac{9}{4}}{9} + \frac{29}{16} + \frac{\frac{4}{7}}{\frac{4 \times 8}{7}} \right) =$$

$$\left(\frac{5}{16} - \frac{1}{4} + \frac{29}{16} + \frac{1}{8} \right) = \frac{5 - 1 \times 4 + 29 \times 1 + 1 \times 2}{16} = \frac{5 - 4 + 29 + 2}{16} =$$

$$\frac{32}{16} = 2$$