

**Enunciados**

Realiza las siguientes operaciones y da el resultado del modo más sencillo que sea posible (fracción irreducible o número entero).

$$\textcircled{1} \quad \left(\frac{19}{21} - \frac{3}{4}\right) - \left(\frac{19}{21} + \frac{1}{4}\right)$$

$$\textcircled{2} \quad 13 \cdot \left(\frac{2}{13} + \frac{1}{5}\right) - 17 \cdot \left(\frac{2}{17} - \frac{1}{5}\right)$$

$$\textcircled{3} \quad \left(\frac{17}{33} + \frac{15}{11}\right) - \left(\frac{17}{33} + \frac{1}{6}\right) - \left(\frac{15}{11} - \frac{3}{4}\right)$$

$$\textcircled{4} \quad 7 \cdot \left(\frac{5}{14} + \frac{4}{21}\right) + 5 \cdot \left(\frac{1}{10} - \frac{1}{15}\right)$$

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

$$\textcircled{6} \quad \frac{3}{5} + \frac{35}{36} \cdot \frac{6}{7} - \left(\frac{1}{10} + \frac{1}{3}\right)$$

$$\textcircled{7} \quad 2 - \left(\frac{7}{5} + \frac{14}{15}\right)$$

$$\textcircled{8} \quad \left(\frac{1}{2} + \frac{7}{6}\right) - \left(\frac{4}{5} + \frac{27}{35}\right)$$

$$\textcircled{9} \quad \left(3 + \frac{27}{35}\right) - \left(\frac{4}{5} + \frac{27}{35}\right)$$

$$\textcircled{10} \quad 3 \cdot \left(\left(\frac{1}{2}\right)^2 + \frac{7}{4}\right) - 5 \cdot \left(\left(\frac{1}{3}\right)^2 - \frac{10}{9}\right)$$

$$\textcircled{11} \quad 3 \cdot \left(\frac{1}{3} + \frac{1}{5}\right) + 31 \cdot \left(\frac{1}{15} - \frac{1}{31}\right)$$

$$\textcircled{12} \quad \left(\frac{7}{53} + \frac{1}{2}\right) - \left(\frac{7}{53} + \frac{15}{17}\right) - \left(-\frac{1}{14} - \frac{15}{17}\right)$$

$$\textcircled{13} \quad 7 \cdot \left(\frac{1}{2} + \frac{4}{35}\right) - \left(\frac{71}{22} + \frac{4}{5}\right)$$

$$\textcircled{14} \quad \frac{125}{27} - \left(\left(\frac{5}{3}\right)^3 + 4\right)$$

$$\textcircled{15} \quad 11 \cdot \left(\frac{3}{22} + \frac{4}{55}\right) + 13 \cdot \left(\frac{2}{13} - \frac{3}{26}\right)$$

$$\textcircled{16} \quad 7 \cdot \left(\frac{5}{14} - \frac{3}{2}\right) + 4 \cdot \left(\frac{1}{3} - \frac{7}{12}\right)$$

## Soluciones

①  $-1$

②  $6$

③  $\frac{7}{12}$

④  $4$

⑤  $\frac{7}{3}$

⑥  $1$

⑦  $-\frac{1}{3}$

⑧  $\frac{68}{21}$

⑨  $\frac{11}{5}$

⑩  $11$

⑪  $\frac{8}{3}$

⑫  $\frac{4}{7}$

⑬  $\frac{3}{11}$

⑭  $-4$

⑮  $\frac{14}{5}$

⑯  $0$