

**Enunciados**

Resuelve las siguientes ecuaciones. Da el resultado del modo más sencillo que sea posible (número entero o fracción irreducible).

$$\textcircled{1} \quad x - 6 \left( \frac{3x-1}{2} - \frac{x-4}{6} \right) = -8$$

$$\textcircled{2} \quad 2 \left( \frac{x}{3} - \frac{5x}{6} \right) = 4x + 5$$

$$\textcircled{3} \quad \frac{x}{3} + 10 \left( \frac{5x}{2} - 1 \right) = 4$$

$$\textcircled{4} \quad 5 \left( \frac{x}{10} - \frac{7}{20} \right) = 1 - 7 \left( \frac{3x}{14} - \frac{13}{28} \right)$$

$$\textcircled{5} \quad \frac{3}{5} \left( \frac{5x}{3} - \frac{10}{9} \right) = 1 + \frac{7}{2} \left( \frac{x}{7} - \frac{1}{21} \right)$$

$$\textcircled{6} \quad x - 7 \left( \frac{5x}{14} - 1 \right) = -\frac{1}{2}$$

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

$$\textcircled{8} \quad 2 \left( \frac{5x}{4} - \frac{7}{6} \right) + x = 3 \left( \frac{4x}{9} + \frac{25}{18} \right)$$

$$\textcircled{9} \quad x + 2 = 5 \left( \frac{x}{10} + \frac{7}{15} \right)$$

$$\textcircled{10} \quad \frac{2}{5} \left( \frac{5x}{4} + \frac{15}{2} \right) = \frac{6}{7} \left( \frac{7x}{12} + \frac{21}{2} \right) + 1$$

$$\textcircled{11} \quad 3 \left( x + \frac{5}{6} \right) + x = 7 \left( \frac{x}{3} - 1 \right) + 2$$

$$\textcircled{12} \quad x - \frac{2}{3} \left( \frac{6x}{5} + \frac{9}{10} \right) = \frac{1}{3} \left( 2x - \frac{3}{4} \right) - \frac{7}{5} \left( \frac{x}{3} + \frac{1}{4} \right)$$

$$\textcircled{13} \quad 4 \left( \frac{x}{8} + \frac{3}{16} \right) - x = 7 + 5 \left( \frac{3x}{10} + \frac{7}{20} \right)$$

$$\textcircled{14} \quad \frac{3}{5} \left( 5x + \frac{1}{2} \right) - \frac{13}{10} = x + \frac{4}{3} \left( \frac{3}{4} - \frac{3x}{2} \right)$$

$$\textcircled{15} \quad x - 4 \left( \frac{5x}{4} - \frac{5}{2} \right) = 2 + 3 \left( \frac{7x}{3} - \frac{17}{6} \right)$$

$$\textcircled{16} \quad 7 \left( \frac{3x}{7} + \frac{1}{14} \right) + 5 \left( \frac{4x}{5} + \frac{1}{15} \right) - 4 \left( \frac{x}{4} - \frac{13}{24} \right) = 0$$

## Soluciones

①  $x = \frac{5}{3}$

②  $x = -1$

③  $x = \frac{21}{38}$

④  $x = 3$

⑤  $x = 3$

⑥  $x = 5$

⑦  $x = -1$

⑧  $x = 3$

⑨  $x = \frac{2}{3}$

⑩ Sin solución

⑪  $x = -\frac{9}{2}$

⑫ Cualquier número es solución

⑬  $x = -4$

⑭  $x = \frac{1}{2}$

⑮  $x = \frac{3}{2}$

⑯  $x = -\frac{1}{2}$