

Evaluación 2– soluciones

20 feb, 2026

Calcular (sin calculadora). Dar respuesta en fracción reducida.

1. $\frac{2}{3} \div \frac{7}{18}$

$$\triangleright \frac{2}{3} \div \frac{7}{18} = \frac{2}{3} \cdot \frac{18}{7} = \frac{2 \cdot \cancel{18}^6}{\cancel{3} \cdot 7} = \frac{2 \cdot 6}{7} = \frac{12}{7}.$$

■

2. $\frac{1}{5} - 7$

$$\triangleright \frac{1}{5} - 7 = \frac{1}{5} - \frac{7 \cdot 5}{5} = \frac{1 - 7 \cdot 5}{5} = \frac{1 - 35}{5} = \frac{-34}{5} = -\frac{34}{5}.$$

■

3. $3\left(\frac{x}{2} - 3\right)$, donde $x = \frac{1}{4}$.

$$\begin{aligned} \triangleright 3\left(\frac{x}{2} - 3\right) &= 3\left(\frac{\frac{1}{4}}{2} - 3\right) = 3\left(\frac{1}{4} \cdot \frac{1}{2} - 3\right) = 3\left(\frac{1}{8} - 3\right) = \\ &= 3\left(\frac{1}{8} - \frac{3 \cdot 8}{8}\right) = 3\left(\frac{1 - 24}{8}\right) = 3\left(\frac{-23}{8}\right) = \frac{3 \cdot (-23)}{8} = \\ &= \frac{-69}{8} = -\frac{69}{8}. \end{aligned}$$

■

4. $-\left(\frac{1}{2}\right)^2$

$$\triangleright -\left(\frac{1}{2}\right)^2 = -\left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right) = -\frac{1 \cdot 1}{2 \cdot 2} = -\frac{1}{4}.$$

■

5. $\left(-\frac{1}{2}\right)^2$

$$\triangleright \left(-\frac{1}{2}\right)^2 = \left(-\frac{1}{2}\right) \cdot \left(-\frac{1}{2}\right) = \left(\frac{1}{2}\right) \cdot \left(\frac{1}{2}\right) = \frac{1 \cdot 1}{2 \cdot 2} = \frac{1}{4}.$$

■