

# Solución a "Compute in a simpler way"

## Enunciado:

Compute in a simpler way.

(without using a calculator)

$$\frac{3^{100} + 3^{100} + 3^{100}}{3^{101} - 3^{100} - 3^{99}}$$

## Solución:

$$\frac{3^{100} + 3^{100} + 3^{100}}{3^{101} - 3^{100} - 3^{99}} = \frac{3 \cdot 3^{100}}{3^{99} \cdot (3^2 - 3 - 1)} = \frac{3^{101}}{3^{99} \cdot 5} = \frac{3^2}{5} = \frac{9}{5} \text{ (solución)}$$

