Taller 9

a) 68.327,54+0,007988

$68.327,54 = 6.832754 \times 10^4$

$0,007988 = 7.988 \times 10^{-3}$

$\qquad 6.832754 \times 10^4 a\, 6.832754 \times 10^4 y\, 7.988 \times 10^{-3} a\, 0.0007988 \times 10^4$

$6.832754 \times 10^4 + 0.0007988 \times 10^4 = (6.832754 + 0.0007988) \times 10^4$
$\qquad\qquad = 6.8335528 \times 10^4$

- Mantisa: 6.8335528 → redondeamos a 7 dígitos → 6.833553

- Exponente: 10^4

$\qquad$ Signo = +, Mantisa= 6.833553, Exponente = 10^4

b) 748,067−41.322,006

$$7.48067 * 10^2 a\, 74.8067 * 10^1 y\, 41322006 * 10^1$$

$$74.8067 \times 10^1 - 4.1322006 \times 10^1 = (74.8067 - 4.1322006) \times 10^1$$
$$= 70.6744994 \times 10^1$$

Realizamos un redondeo a 7 dígitos dando $70.6745 * 10^1$

c) 0,40172×0,00011109

$$\mathbf{0,40172 = 4.0172 \times 10^{-1}}$$
$0,00011109 = 1.1109 \times 10^{-4}$
$(4.0172 \times 10^{-1}) \times (1.1109 \times 10^{-4}) = 4.0172 \times 1.1109 \times 10^{-5}$
$\qquad\qquad = 4.46720488 \times 10^{-5}$

4.467205×10^{-5}

d) 29,95091÷0,000110793

$$29,95091 = 2.995091 \times 10^1$$

$$0,000110793 = 1.10793 \times 10^{-4}$$

$$2.995091 * \frac{10^1}{1.10793 * 10^{-4}} = 2.\frac{995091}{1.10793} * 10^{1-(-4)} = 2.703801 * 10^5$$