

**Enunciados**

Resuelve las siguientes ecuaciones. Escribe con cinco cifras significativas las soluciones que no sean números enteros.

①  $(x-2)^2=7+x$

②  $\frac{x^2+x}{3}-x=3$

③  $(x+7)(x+4)=28$

④  $\frac{x^2}{3}-\frac{x}{2}=\frac{x+1}{4}$

⑤  $\frac{x^2+3}{2}-\frac{x+7}{3}=1$

⑥  $(x-3)^2+(x-5)^2=-2$

⑦  $\frac{x^2-1}{5}-\frac{x-1}{3}=1$

⑧  $\frac{x^2}{3}+\frac{x}{2}=\frac{1}{5}$

⑨  $2(x+5)^2-(2x-5)^2=0$

⑩  $1-\frac{x-1}{2}=\frac{x^2+6}{4}$

⑪  $\left(\frac{x}{2}+5\right)^2=16$

⑫  $2(x^2-3)+5(x-1)=33$

⑬  $\frac{x^2}{4}-\frac{2-x}{3}=\frac{1}{3}$

⑭  $\frac{x^2}{3}-6x=-9$

⑮  $(x+2)^2+4x+8=0$

⑯  $(x-2)(x+5)=2x-4$

⑰  $\frac{(x+1)^2}{3}-\frac{(x-2)^2}{2}=4$

⑱  $(2x+7)^2=(x+8)(x+20)$

⑲  $(x-3)^2+(x-4)^2=13$

**Enunciado**

⑳ Resuelve la ecuación  $\frac{x}{5}+2x=x^2-4,55$

## Soluciones

$$\textcircled{1} \quad x = \begin{pmatrix} 5,5414 \\ -0,54138 \end{pmatrix}$$

$$\textcircled{2} \quad x = \begin{pmatrix} 4,1623 \\ -2,1623 \end{pmatrix}$$

$$\textcircled{3} \quad x = \begin{pmatrix} 0 \\ -11 \end{pmatrix}$$

$$\textcircled{4} \quad x = \begin{pmatrix} 2,5447 \\ -0,29473 \end{pmatrix}$$

$$\textcircled{5} \quad x = \begin{pmatrix} 2,2770 \\ -1,6103 \end{pmatrix}$$

$\textcircled{6}$  Sin solución

$$\textcircled{7} \quad x = \begin{pmatrix} 3,0756 \\ -1,4089 \end{pmatrix}$$

$$\textcircled{8} \quad x = \begin{pmatrix} 0,32819 \\ -1,8282 \end{pmatrix}$$

$$\textcircled{9} \quad x = \begin{pmatrix} -0,60660 \\ 20,607 \end{pmatrix}$$

$$\textcircled{10} \quad x = \begin{pmatrix} 0 \\ -2 \end{pmatrix}$$

$$\textcircled{11} \quad x = \begin{pmatrix} -2 \\ -18 \end{pmatrix}$$

$$\textcircled{12} \quad x = \begin{pmatrix} 3,4471 \\ -5,9471 \end{pmatrix}$$

$$\textcircled{13} \quad x = \begin{pmatrix} 1,4415 \\ -2,7749 \end{pmatrix}$$

$$\textcircled{14} \quad x = \begin{pmatrix} 16,348 \\ -1,6515 \end{pmatrix}$$

$$\textcircled{15} \quad x = \begin{pmatrix} -2 \\ -6 \end{pmatrix}$$

$$\textcircled{16} \quad x = \begin{pmatrix} 2 \\ -3 \end{pmatrix}$$

$$\textcircled{17} \quad x = \begin{pmatrix} 13,477 \\ 2,5228 \end{pmatrix}$$

$$\textcircled{18} \quad x = \begin{pmatrix} 6,0828 \\ -6,0828 \end{pmatrix}$$

$$\textcircled{19} \quad x = \begin{pmatrix} 1 \\ 6 \end{pmatrix}$$

$$\textcircled{20} \quad x = \begin{pmatrix} 3,5 \\ -1,3 \end{pmatrix}$$