

Laberinto

$$\textcircled{1} -7x + 14 + 21 = 0$$

$$-173$$

$$\textcircled{2} 2x^2 - 14x + 24 = 0$$

$$4 \quad 7 \quad 3$$

$$\textcircled{3} -7x^2 + 63 = 0$$

$$-3 \quad 7 \quad 3$$

$$\textcircled{4} x^2 - 7x - 4 = 0$$

$$\frac{7 \pm \sqrt{65}}{2}$$

$$\textcircled{5} x^2 - 2x - 2 = 0$$

$$1 \pm \sqrt{3}$$

$$\textcircled{6} 4x^2 - 24 = 0$$

$$\pm \sqrt{6}$$

$$\textcircled{7} 2x^2 - 6x - 2 = 4x - 3$$

$$\frac{5 \pm \sqrt{23}}{2}$$

$$\textcircled{8} -14x^2 + 4x + 74 =$$

$$-6x^2$$

$$\frac{1 \pm \sqrt{29}}{4}$$

Sebastian
Hernandez perez
- Grado Noveno

$$\textcircled{1} -7x^2 + 14x + 27 = 0$$

$$a = -7$$

$$b = 14$$

$$c = 27$$

Formula

$$X = \frac{-b \pm \sqrt{b^2 - 4 \cdot a \cdot c}}{2(a)}$$

Reemplazando

$$X = \frac{-(14) \pm \sqrt{(14)^2 - 4(-7)(27)}}{2(-7)}$$

$$X = \frac{-14 \pm \sqrt{196 + 588}}{-14}$$

$$X = \frac{-14 \pm \sqrt{784}}{-14}$$

$$X = \frac{-14 \pm 28}{-14}$$

2 raíces \pm

$$X_1 = \frac{-14 + 28}{-14}$$

$$X_2 = \frac{-14 - 28}{-14} =$$

$$X_1 = \frac{14}{-14} =$$

$$X_2 = \frac{-42}{-14} =$$

$$X_1 = \underline{-1}$$

$$X_2 = \underline{3}$$

$$\textcircled{2} \quad 2x^2 - 14x + 24 = 0$$

$$a = 2$$

$$b = -14$$

$$c = 24$$

$$x = \frac{-(-14) \pm \sqrt{(-14)^2 - 4(2)(24)}}{2(2)}$$

$$x = \frac{14 \pm \sqrt{196 - 192}}{4}$$

$$x = \frac{14 \pm \sqrt{4}}{4}$$

$$x = \frac{14 \pm 2}{4}$$

$$\pm \quad x_1 = \frac{14 + 2}{4}$$

$$x_2 = \frac{14 - 2}{4}$$

$$x_1 = \frac{16}{4}$$

$$x_2 = \frac{12}{4} = \underline{3}$$

$$x_1 = \underline{4}$$

$$x_2 = 3$$

$$\textcircled{3} \quad -7x + 63 = 0$$

$$-7x + 1x + 63 = 0$$

$$a = -7$$

$$b = 1$$

$$c = 63$$

$$x = \frac{-(-7) \pm \sqrt{(-1)^2 - 4(-7)(63)}}{2(-7)}$$

$$X = \frac{-7 \pm \sqrt{7 + 1764}}{-74}$$

$$X = \frac{-7 \pm \sqrt{1771}}{-74}$$

$$X = \frac{-7 \pm 42}{-74}$$

$$+ \quad X_1 = \frac{-7 + 42}{-74}$$

$$X_1 = \frac{47}{-74}$$

$$X_1 = \underline{-3}$$

$$X_2 = \frac{-7 - 42}{-74}$$

$$X_2 = \frac{-49}{-74}$$

$$X_2 = \underline{3}$$

$$\textcircled{4} \quad x^2 - 7x - 4 = 0$$

$$X = \frac{-(-7) \pm \sqrt{(-7)^2 - 4(1)(-4)}}{2(1)}$$

$$X = \frac{7 \pm \sqrt{49 + 16}}{2}$$

$$X = \frac{7 \pm \sqrt{65}}{2}$$

se reescribe

$$= \frac{7 \pm \sqrt{65}}{2} = \frac{\sqrt{65}}{\sqrt{2}} = \frac{\sqrt{65}}{2}$$

$$(5) \quad x^2 - 2x - 2 = 0$$

$$\begin{aligned} a &= 1 \\ b &= -2 \\ c &= -2 \end{aligned}$$

$$x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(1)(-2)}}{2(1)}$$

$$x = \frac{2 \pm \sqrt{4 + 8}}{2}$$

$$x = \frac{2 \pm \sqrt{12}}{2}$$

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$$x = \frac{\cancel{2} \pm \sqrt{12}}{\cancel{2}} = \frac{\sqrt{12}}{2} = \frac{\sqrt{12}}{\sqrt{4}} =$$

$$x = 1 \pm \sqrt{3}$$

$$(6) \quad 4x^2 - 24 = 0$$

$$\begin{aligned} a &= 4 \\ b &= 0 \\ c &= -24 \end{aligned}$$

$$4x^2 - x - 24 = 0$$

$$x = \frac{-(0) \pm \sqrt{(0)^2 - 4(4)(-24)}}{2(4)}$$

$$x = \frac{-0 \pm \sqrt{0 + 384}}{8}$$

$$x = \pm \frac{\sqrt{384}}{\sqrt{64}} \text{ Design}$$

$$\frac{6}{\frac{1}{24}} = \frac{6}{\frac{1}{24}} = 6 \times 24 = 144$$

$$\frac{144}{24} = 6$$

$$\frac{384}{64} = 6$$

$$x = \pm \sqrt{6}$$

$$\textcircled{7} \quad 2x^2 - 6x - 2 = 4x - 3$$

$$2x^2 - 4x - 6x - 2 + 3 = 0$$

$$2x^2 - 10x + 1 = 0$$

$$a = 2$$

$$b = -10$$

$$c = 1$$

$$x = \frac{-(-10) \pm \sqrt{(-10)^2 - 4(2)(1)}}{2(2)}$$

$$x = \frac{10 \pm \sqrt{100 - 8}}{4}$$

$$x = \frac{10 \pm \sqrt{92}}{4}$$



reescribe

$$X = \frac{10^5}{\cancel{X}} \pm \frac{\sqrt{92}}{4} = \left\{ \frac{\sqrt{92}}{4} = \frac{\sqrt{\sqrt{92}}}{\sqrt{4}} = \frac{\sqrt{92}}{\sqrt{16}} = \frac{\sqrt{92}}{4} \right.$$

$$X = \frac{5}{2} \pm \frac{\sqrt{92}}{\sqrt{16}} = \frac{\frac{23}{46}}{16} = \frac{23}{4}$$

$$X = \frac{5}{2} \pm \frac{\sqrt{23}}{4}$$

$$X = \frac{5}{2} \pm \frac{\sqrt{23}}{\sqrt{4}}$$

$$X = \frac{5}{2} \pm \frac{\sqrt{23}}{\cancel{X}} = X = \frac{5 \pm \sqrt{23}}{2}$$

8

$$-14x^2 + 4x + 74 = -6x^2$$

$$-14x^2 + 6x^2 + 4x + 14 = 0$$

$$-8x^2 + 4x + 14 = 0$$

$$a = -8$$

$$b = 4$$

$$c = 14$$

Destyn

$$X = \frac{-(-4) \pm \sqrt{(-4)^2 - 4(-8)(74)}}{2(-8)}$$

$$X = \frac{4 \pm \sqrt{16 + 448}}{-16}$$

$$X = \frac{\overset{1}{\cancel{4}} \pm \sqrt{\frac{464}{76}}}{\frac{16}{\cancel{8}} \cancel{4}} = \frac{\sqrt{16}}{\cancel{464}} = 29$$

$\begin{array}{r} 29 \\ \times 8 \\ \hline 232 \\ \hline 464 \end{array}$

$$X = \frac{1 \pm \sqrt{29}}{4}$$

Sebastián Hernández Pérez
Grado Noveno.