

Día 7. $2x^2 - 6x - 2 = 4x - 3$

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

Año $2x^2 - 10x + 1 = 0$

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

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

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

$$= \frac{10 \pm \sqrt{23}}{4}$$

4

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

2

8. $14x^2 + 4x + 14 = -6x^2$

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

$$20x^2 + 4x + 14 = 0$$

$$x = \frac{-4 \pm \sqrt{4^2 - 4(20)(14)}}{2(20)}$$

$$\frac{-4 \pm \sqrt{16 - 1120}}{40}$$

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

$$\frac{-4 \pm \sqrt{-1104}}{40}$$

$$\frac{552}{40}$$

$$4. \quad x^2 - 7x - 4 = 0$$

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

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

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

$$5. \quad x^2 - 2x - 2 = 0$$

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

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

$$= \frac{2}{2}$$

$$\frac{\sqrt{2^2} \cdot \sqrt{3}}{2}$$

$$= 1$$

$$\frac{2\sqrt{3}}{2}$$

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

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

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

$$\frac{0 \pm \sqrt{384}}{8}$$

$$\pm \sqrt{48}$$

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

Día

Mes

Año

Día

Laberinto

Mes

Año

1. $-7x^2 + 14x + 21 = 0$

$$x = \frac{-(-14) \pm \sqrt{196 - (-588)}}{14}$$

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

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

$$\frac{14}{-14} \quad \frac{14}{-14}$$

$x_1 = 3$

$x_2 = -1$

2. $2x^2 - 14x + 24 = 0$

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

$$\frac{+14 \pm 2}{4}$$

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

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

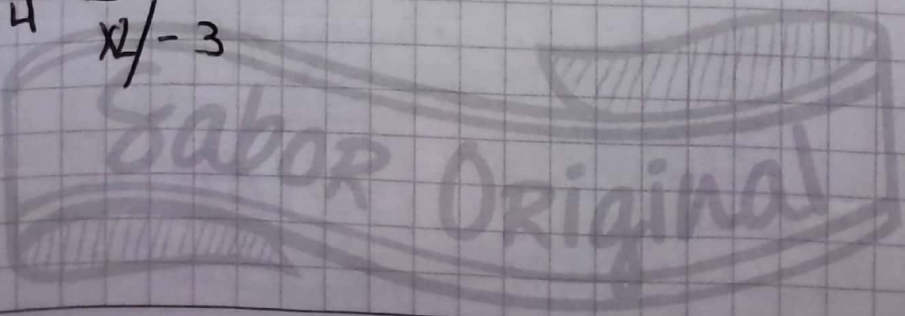
3. $-7x^2 + 63 = 0$

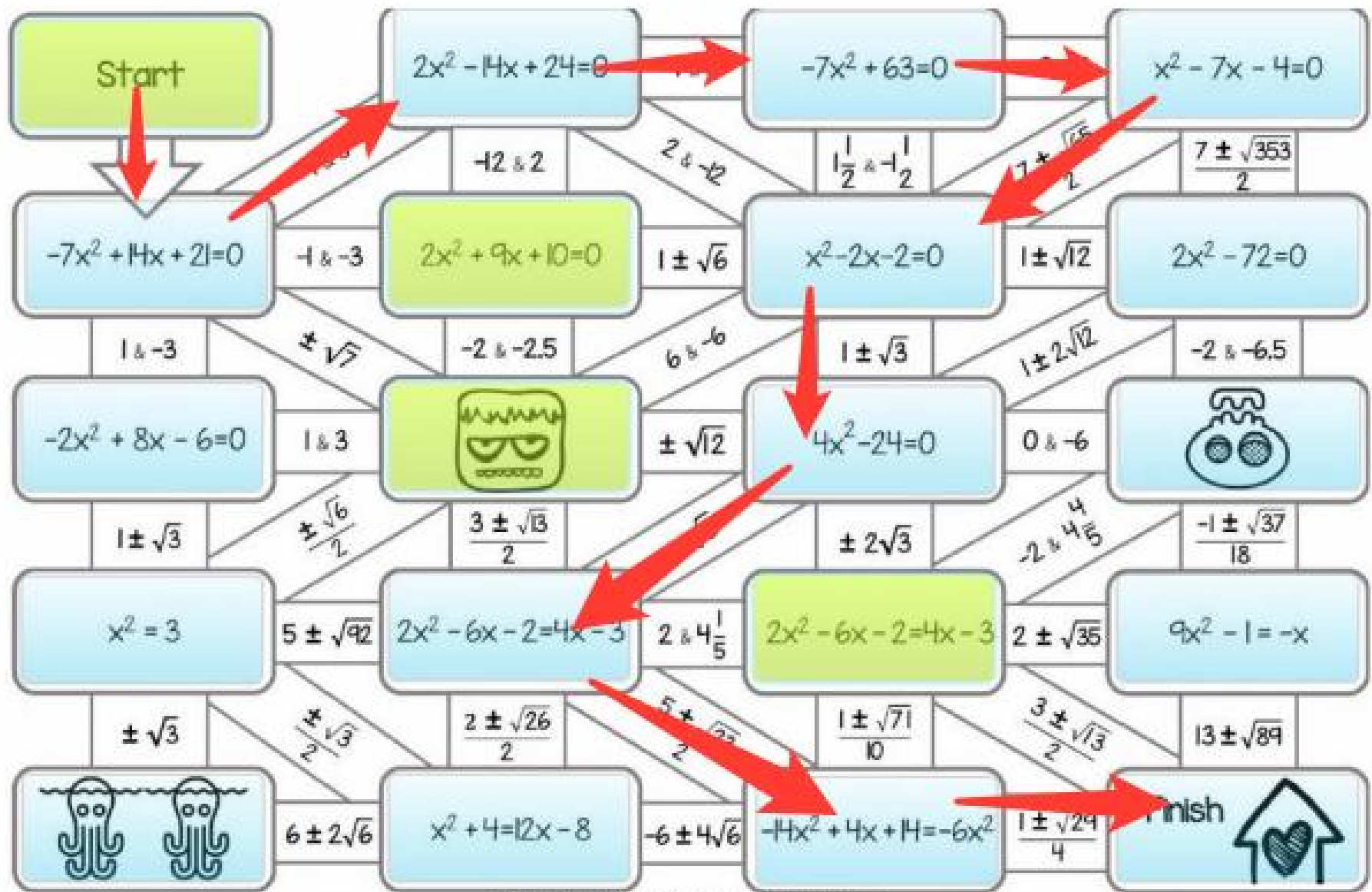
$$x = \frac{-(-1) \pm \sqrt{1 - 4(7)(9)}}{-14}$$

$$\frac{1 \pm \sqrt{1764}}{-14}$$

$$= \frac{42}{-14} = \frac{x_1}{-3}$$

$$= \frac{42}{-14} = \frac{x_2}{-3}$$





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