Here we going to see how to board:

$$\boxed{x^3 = a}$$

Develop: First: $\boxed{x^3 = 1}$

$$x^3 = 1 \Rightarrow x^3 - 1 = 0 \Rightarrow (x-1)\cdot\underbrace{(x^2+x+1)}_{a=1 \quad b=1 \quad c=1} = 0$$

$$\frac{-b \pm \sqrt{b^2-4ac}}{2a}$$

$$= \frac{-1 \pm \sqrt{1-4}}{2}$$

$$= \frac{-1 \pm \sqrt{-3}}{2}$$

$$= \frac{-1 \pm \sqrt{-1}\cdot\sqrt{3}}{2}$$

$$= \frac{-1 \pm i\cdot\sqrt{3}}{2}$$

$$\boxed{X_1 = 1} \qquad \boxed{X_2 = \frac{-1+\sqrt{3}\,i}{2}}$$

$$\boxed{X_3 = \frac{-1-\sqrt{3}\,i}{2}}$$

We going to call $\boxed{w_1 = \frac{\sqrt{3}\cdot i - 1}{2}}$

$$\boxed{w_2 = \frac{-\sqrt{3}\,i - 1}{2}}$$

Now if we have:

$$\boxed{x^3 = a}$$

We define $\boxed{t = \frac{x}{\sqrt[3]{a}}} \Rightarrow \boxed{t^3 = 1}$

$$\Rightarrow \boxed{\begin{array}{l} t_1 = w_1 \\ t_2 = w_2 \\ t_3 = 1 \end{array}}$$

$$\Rightarrow \boxed{t_1 = w_1 \cdot \sqrt[3]{a}} \qquad \boxed{t_2 = w_2 \cdot \sqrt[3]{a}}$$

$$\boxed{t_3 = \sqrt[3]{a}}$$