The role of the impulse to solve equations

1) while numbers
2) Integers
3) Rational numbers
4) Roots
5) Real numbers $f(x)=b, f$ a ca minutes
6) Complex numbers
$\left.\begin{array}{l}2 x-3 \\ \times 2=3\end{array}\right\}$ save solution

$$
a^{b} \neq b^{a}
$$

So solving $x^{b}=c$ solution $x=x^{\text {not }}$
is not the same a solving $x=c^{b_{b}}$

$$
a^{x}=c \quad \begin{aligned}
& \text { soluhm is } a \log \\
& x=\log _{a} c
\end{aligned}
$$

Complex number

$$
x^{2}=-1
$$

Adding in the solution to $x^{2}=-1$ to the number system creates solution to early polynomial equathm

$$
x^{4}=-1 \quad \sum^{4} \cdot \begin{gathered}
\cdot a+b i \\
\end{gathered}
$$


$\square$

