



Chapter 6

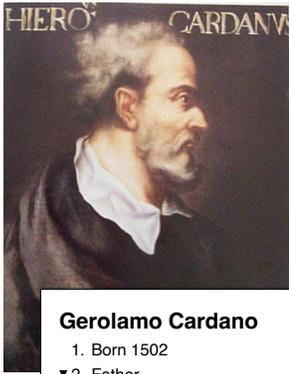
1. In what century did Cardano spend most of his life?
- ▼ 2. Give five reasons why Dunham writes that Cardano is the most bizarre mathematical character of all time.
 - ▼ a. Sadness
 - i. was illegitimate, almost aborted at birth, one son died, other jailed, wife died, impotent
 - ▼ b. Superstition
 - i. fear of heights, mad dogs,
 - ▼ c. Afflicted
 - i. massive urination, oozings, self-inflicted torture
 - ▼ d. Arrested
 - i. for heresy, casting horoscopes of Jesus
 - e. Pension from the Pope
 - ▼ f. Gambler
 - i. wrote a book on probability
 - ii. weaver of amulets
3. Briefly describe the Tartaglia / Cardano conflict.
- ▼ 4. How did complex numbers first find significance in mathematical thought?
 - a. As a tool for solving cubics.
- ▼ 5. What is Cardano's Great Theorem?
 - a. He produced a closed form solution for finding a real solution for many cubic equations.
6. b Does there exist an algebraic formula for the quartic and quintic?

② $\sqrt{\quad}$,

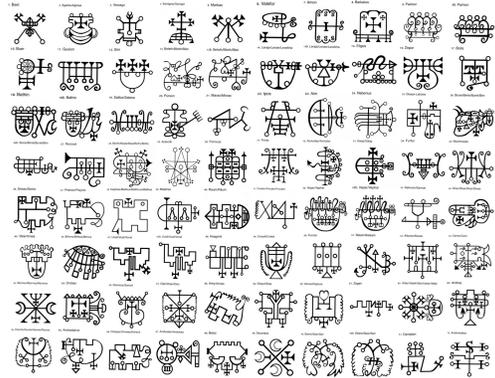
③ $\sqrt[3]{\quad}$

④ $\sqrt[4]{\quad}$

⑤ roots aren't enough
'inverse' needed



- Gerolamo Cardano**
- 1. Born 1502
 - ▼ 2. Father
 - a. Fazio Cardano
 - b. Student of perspective
 - ▼ c. Professor
 - ▼ i. hermetical science
 - 1. Based on purported teachings of Hermes
 - 2. primeval divine wisdom, revealed to the few
 - ▼ d. Devoted to the world of the occult.
 - i. Supernatural beliefs outside of science & religion
 - ii. had a "familiar" spirit
 - e. Friend of Leonardo Da Vinci
 - ▼ 3. Mother
 - a. Tried to abort Gerolamo



https://en.wikipedia.org/wiki/List_of_sigils_of_demons



<https://en.wikipedia.org/wiki/Familiar>



Other Pictures

great biography

<https://mathshistory.st-andrews.ac.uk/Biographies/Cardan/>