



## Chapter 6

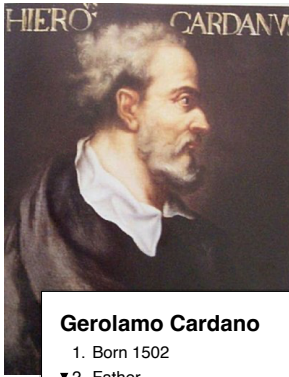
1. In what century did Cardano spend most of his life?
- ▼ 2. Give five reasons why Dunham writes that Cardano is the most bizarre mathematical character of all time.
  - ▼ a. Sadness
    - i. was illegitimate, almost aborted at birth, one son died, other jailed, wife died, impotent
  - ▼ b. Superstition
    - 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. bDoes there exist an algebraic formula for the quartic and quintic?

②  
 $\sqrt{\quad},$

③  
 $\sqrt[3]{\quad}$

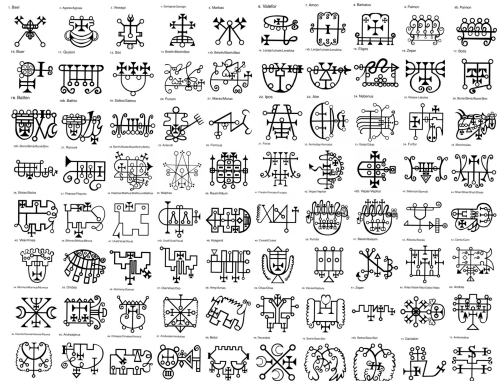
④  
 $\sqrt[4]{\quad}$

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/List_of_sigils_of_demons)



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

