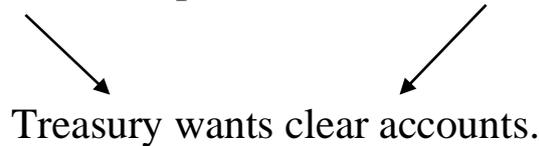


CHAPTER 10:
ORGANIZATION
POLITICS +
FUZZY + THEORY
OF GALOIS GROUPS.

It has long been discussed between the ineligibility of the human brain and that of a computer or electronic chip.

The future is usually conceived as diffuse or blurry.

Precision: mathematics, politics, art, economics ...



Treasury wants clear accounts.

Increasing power increases the definition; Different stages or parties (eg quantum, subject states ...).

Blurty \equiv **statistics** \equiv **humanity** \equiv **nuances** ...

The grace are the exceptions, however, in digital computing, everything has to be exact.

It seems that our brain is educated for being binary, that's why those who keep blurring and fog in their lives seem to be marginalized, classified, separated ...

Ying-yang // yes-no // black-black ...

It is at the borders where there is more diffusion.

I am not omnipotent when to knowledge; I have loopholes and that makes me a good person.

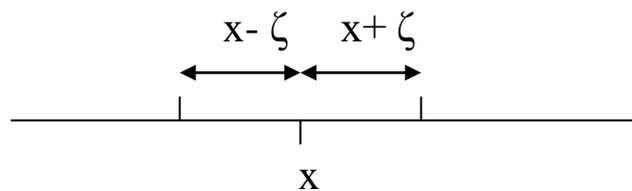
The "religious mantis" of the 21st century are mysterious women who do not know exactly what they live or eat but they have many eyes and an aggressive charm.

Now we will not base ourselves on the boundaries of the psyche that prevent us from reaching unknown places that sometimes imply millimetric accuracy (created by the human being itself) and which is nothing more than a desire for power and domination.

It would be like doing "budou" with what you hate, although the result can be directed towards an innocent or harmless individual.

My friend said: << man, depends >> (when asked a question).

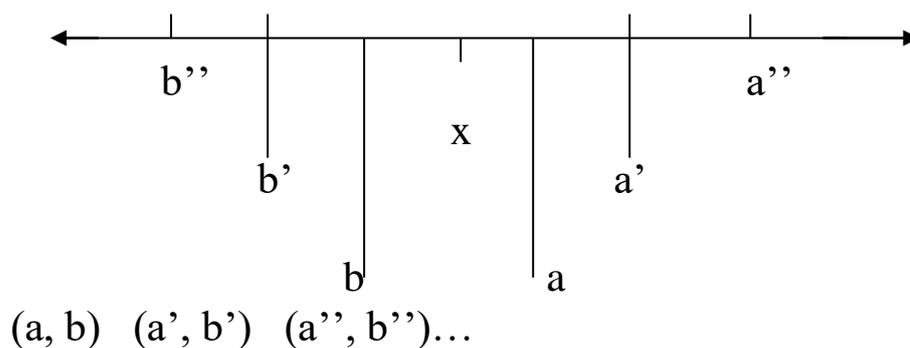
Blurred Systems:



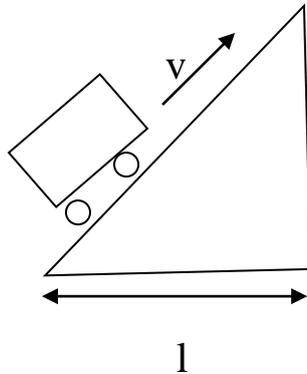
By narrowing the domain or convergence limit, accuracy increases.

Perhaps the Gaussian Bell (more than a triangle) is more reliable .

95% of reliability is almost the largest we can get;



To ↑ the domain, ↑ the radicality and also the extremism between the points.



$$\Delta v / \Delta t = a$$

si $a < 0$, aleshores
 $-\Delta v / \Delta t$

when there is a slope it is logical a

and if instead of using binary logic we use ternary or quaternary?.

Blurred devices are equivalent to intelligent devices and robotised seeds to gain precision, smoothness and \$.

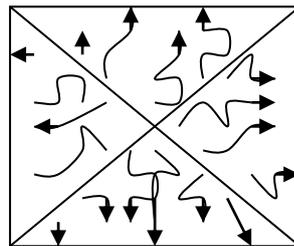
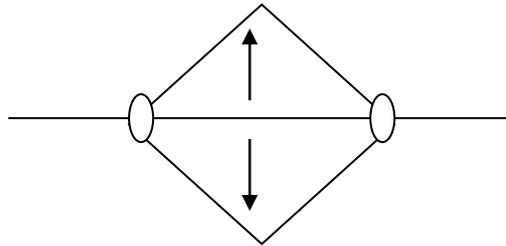
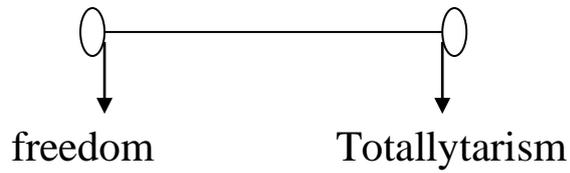
We can define man as a set of diffuses and drafts.

The square or the figure of more than 1 dimension is described by those who have the most right to subtract [ex: economy and state dictate the pattern, and those who pay finish delimiting]. The politicians absorb the space and force a decision that they do not exert but they play the game of the angry one and to throw balls outside among them.

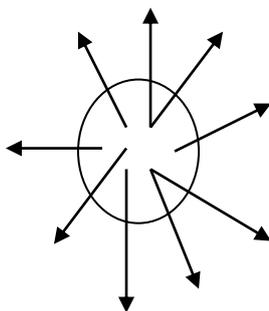
What option do you take to health? Let die or prolong a life that has no future?

- Schemes: Freedoms and Democrats
- Conservatives and Republicans
- Right: moderated or fascist

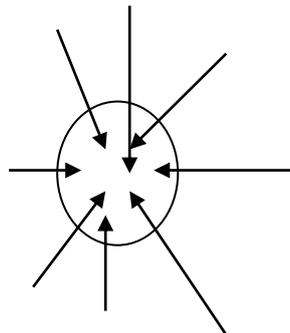
A Split map is required:



The center is diluted towards the end depending also on age of what he exercises the center will die son and will be replaced by another one



Individual object of anarchy



Individual object of fascism

Is the government a destiny? How does the government dominate the culture and education? everything revolves around him.

Is the cybernetic world a freer of state impositions?

Subjects that grow themselves are dangerous to the state.

My place is in the classrooms and act as a free-thinking and scientific.

I believe that without my contribution a correct "educational building" will never be built.

Internet derivation as a balancing force without relation to the state (with its own entity).

Hume : The magnitude of government depends on your opinion.

Lottery of the investigation: from the same point and play with the advances and if they produce, invest more; It is a scale where every scientific community has opportunities

We must definitely achieve the fact that our internal interests are above the materials. Perhaps the new way to get out of the crisis is beginning to be implemented: using the desire for the benefit of citizens.

I blurly see the realm of a person or individual unitary that I identify with the supreme being [although no one is to be idolized; In addition it would be like jumping into the jugular of a Turkish leader or who is about to "hold the crown" at that time].

If I wear glasses I see everything a bit clearer.

The human genome (sequence of chromosomes):

Father → Son ← Mother

the genetic combination or replication is limited and all combinations are not possible.

You need to discover the secret of how it affects and how it affects the kinship genome to the physical and metabolism of the child.

That way you could optimize at will and distribute how many and what nothing to give in order to make a child a measure.

Another example of gradation is the level of maturation or greenery of an apple; It is not a binary system since the apple may be 70% mature and not only 0% - 100%: we can also think of eating the apple when it has matured "x time" on the tree.

You need a set of values to see if the statistics confirm that after a "time x" apples have matured 70% (or 100%); << if P, then Q >>.

In the atmospheric space (beyond the sky) there is some property that goes down as we move away from the ground [continuously as a geometric progression].

Even in maritime territories, there are noise barriers to prevent whales from overcoming such a border.

Arithmetic progression: $a_{n+1} = a_n + d$

Geometric progression: $a_{n+1} = a_n \times d$

Let subliminal messages go in between what I comment and I communicate.

In spite of having mental diarrhea, I try not to be a liar.

Whoever dominates the military estate has no scruples because he uses the pawns (when he does not have to appropriate them). Really the one who directs the war is in a distant and safe place of the battle front.

What seems to distill this book is that space has a price.

What's more, if any article (created by an inventor or a company or an artist ...), if it works it can be sold on a large scale.

The deeper, the more reliable and exact (you need to increase the speed to avoid blurring).

The current war is based more on computing and bits than at nuclear warheads (weapons).

The Soviets or people in the North may be more fragile emotionally depressed and impenetrable.

We know that a small error of bits or other elementary particles can trigger a series of mistakes such as "butterfly effect".

It is increasingly difficult to maintain privacy, since you can not hide anything (everyone is signed in) and everything is public and increasingly widespread.

We must understand the way in which the equations are understood:

$$\left. \begin{array}{l} \text{a) } A \rightarrow \text{cause} \\ B \rightarrow \text{effect} \end{array} \right\} B = f(A)$$

$$\left. \begin{array}{l} \text{b) } O \rightarrow \text{offer} \\ D \rightarrow \text{demand} \end{array} \right\} O = f(D)$$

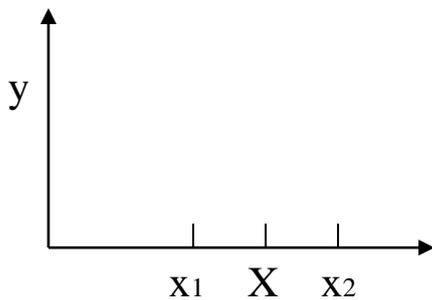
Which makes you see that mathematics can be *inductive* or *deductive*.

<< If ... then >> is applicable to the everyday routine.

If we use GPS to get to a street and park the car somewhat distant from the target and we find forks (for example 3) and moving forward we are multiplying the forks (3^n) where n is the number of times we choose a street ... see the complication.

If on the other hand we have as a premise the reactions that occur between UF_6 (uranium hexafluoride) and other products, there is a beginning to create a limitation of possibilities.

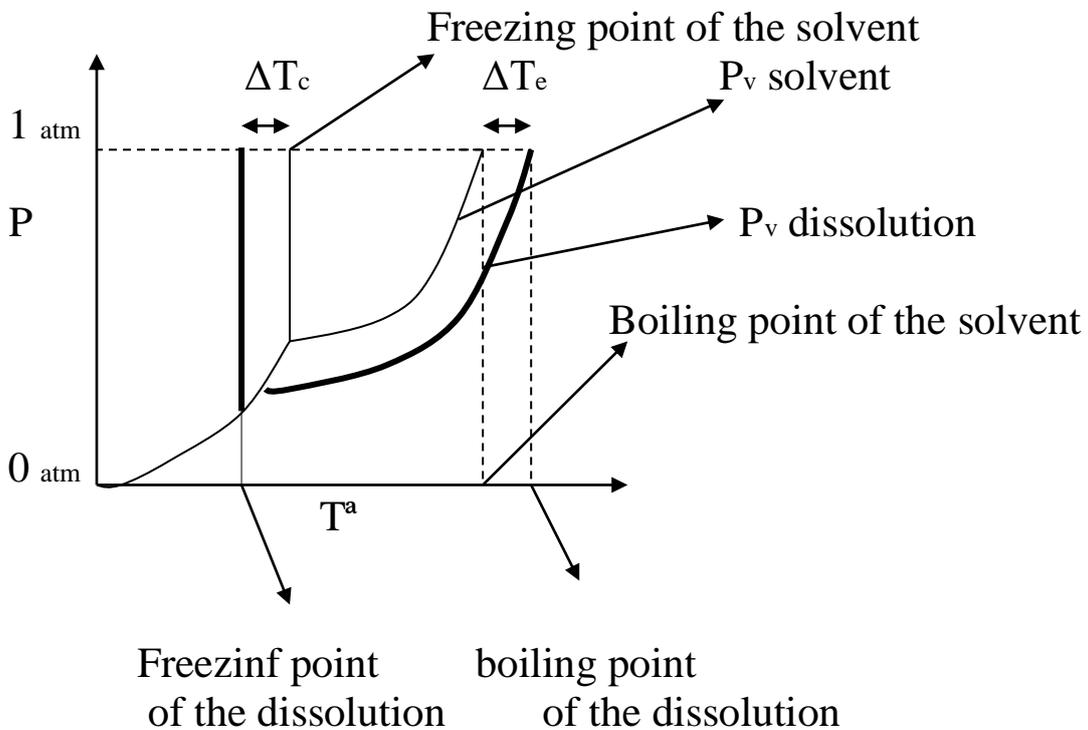
Now we will represent a graph:



Depending on the curves that the graphic draws (eg: T^a vs. quantity of CO_2 , or pressure of "x" vs. molar fraction of "x", etc ...), we can rarely estimate the areas where one is most likely to occur event: we are able to say if "x" fluctuates between x_1 ix x_2 , \rightarrow "y" fluctuates between $f(x_1)$ if (x_2) .

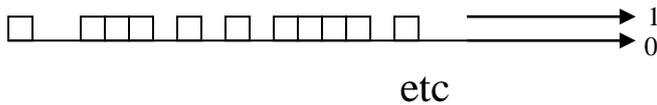
If we can extrapolate a straight line or function, we already do a blurry analysis from where the points will go.

Ex: Pressure vs. Temperature



where $\Delta T_c \equiv$ freezing point descent = $K_c \times$ molality
 and $\Delta T_e \equiv$ rise of the boiling point = $K_e \times$ molality
 and the K's are constant (or the slope of the graph).

Moving on,



is or wants to be a line or bit image

If you recognize a series of them you can connect an action or order.

Price of the values with reference to those that are on the market.

When you see if the results of using a medication are the same as the substance that we are dealing with or missing in our body. I guess this comparison is the basis of the use of drugs.

It can also happen that the human body invents a sensitive brain product that we possess humans that cover the deficiency (antibodies or vaccines).

Depending on how the neural axons wrap themselves can also mean organization or order to make certain impulses or circuits (eg: right-handed or left-handed ...)

Feedback structure to build a pattern and rely on the results themselves (satisfactory or incorrect ...)

If it is not repaired in time, "cell damage" can represent an incorrect wiring and, increasingly, faster.

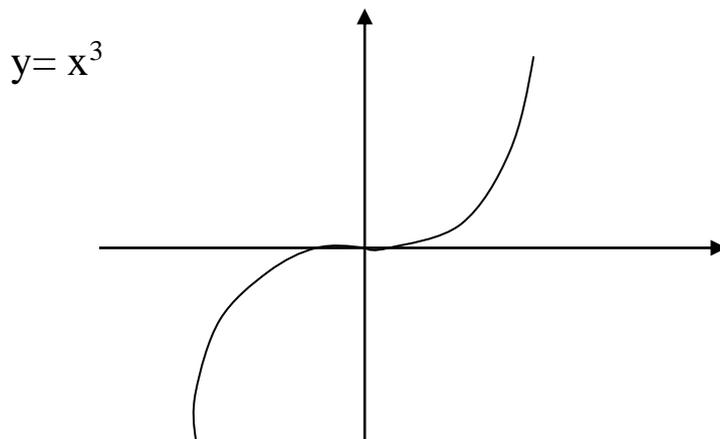
Calculating the time it takes to cool a liquid, we can deduce the depth of the well.

Now I will present that, according to the book "The blurred future or the sky in a chip", the information is equivalent to the mass that swallows the black hole; Every time it becomes bigger and

balances the mass we lose from the Universe; A black hole generates cold.

$$m_{\text{star}} \left\{ \begin{array}{l} \text{(a): } 3/2 \times m_{\text{star}} < m_{\text{sun}} \\ \text{between (a) and (b)} \\ \text{(b): } 2.5 \times m_{\text{star}} \geq m_{\text{sun}} \end{array} \right.$$

As time goes by, (a) it will collapse into a dead white star. It depends on the source of attraction of the sun and the stars. The Universe rewards the higher stars to the detriment of small ones. The (b) will transform into a black hole while the middle in a dense star or *pulsar*.



Then, from negative to positive we can understand how:
 (total cost)³ = no goods produced.

Being near to perfection playing with the referents and practice in little scale. By increasing knowledge, you can play more safety ... which is not as dangerous as throwing yourself to the emptiness.

The funny thing about it is that both the cold and the heat burn.

Buy "state bonds" and speculate without being yours, with the interests you can get when selling them.

I do not want to opt for criticism (I have repeated a thousand times). The time that "you lay" within me keeps me from settling on a step.

I do not want to give up because I would stop being alive.

It does not increase the S (entropy) by falling into a black hole but rather the disorder due to the dissolution of matter in elementary units (bits) that allow new mergers and thus increase to ∞ the sequences. It is equivalent to chess.

A *fit* equals a *blur bit* , and never takes radical values 0 or 1.

$$\left. \begin{array}{l} \text{Knowing that } S=0 \text{ when } 1+1=2 \\ \phantom{\text{Knowing that } S=0 \text{ when }} 0+0=0 \\ \phantom{\text{Knowing that } S=0 \text{ when }} 1+0=1 \end{array} \right\} \text{ to } 100\%.$$

Knowing that the codes to express probability are: $P = 1 / n$.

Where $p \in [0, 1]$. When $P_{\text{bits}} = 1$ (that is to say that all the terms add 0 meny one that is worth the unit) then $S(P) = 0$

$$[p_i \geq 0 \quad \text{and} \quad \sum_{i=1}^n p_i = 1].$$

When $S(P) \neq 0$ [and specifically $S(P)$ maximum] the value is equal to $\ln n$ occurs when all the values p_i have the maximum of disorder: $p_i = 1 / n$ until $p_n = 1 / n$. [where one can deduce that none of the distributions is more likely than the other].

Locating $S(P) = - \sum_{i=1}^n p_i \cdot \ln p_i = \sum_{i=1}^n (1/n) \cdot \ln(n)$ (Ω), and if likely density probability is represented by the integral:

$$S(P) = - \int_{R_n} p(x) \cdot \ln p(x) \cdot dx \quad \text{"S(P) = } \ln n \text{" ja que } \sum_{i=1}^n 1/n_i = 1$$

Without *degenerate states* .

We know that S (P) or entropy has to do with the variety of different possibilities or cases:

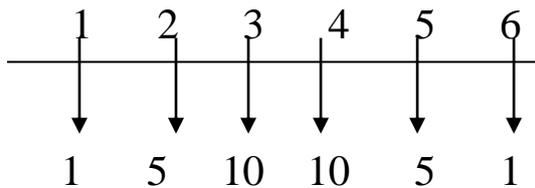
If we assume a simple case of 5 coins and where C ≡ face i + ≡ cross, we will see the different cases:

C	C	C	C	C
+	C	C	C	C
+	+	C	C	C
+	+	+	C	C
+	+	+	+	C
+	+	+	+	+

And in each case we find others "their boxes", for example the second row:

C + C C C
 + C C C C
 C C + C C
 C C C + C
 C C C C +

And thus dividing up to obtain:



$$N = \sum_{i=1}^n n_i$$

And we define W as the total number of cases we can find (remember that, as I said before, I do not take into account the degenerate states → for example due to Energy E_i):

$$W = N! / (n_1! n_2! n_3! \dots)$$

While there are degenerate states:

$$W = N! / \prod_i g_i^{n_i} / n_i!$$

And to get the formula (Ω), we take logarithms from W and we obtain:

$$\ln W = \ln N! - \ln \prod_i n_i! = (N \ln N - N) - \sum_i n_i \ln n_i + \sum_i n_i$$

Approach to Stirling ($\ln N! = N \ln N - N$)

To eliminate it $\sum_i n_i \ln n_i$ we will proceed to derive the two sides of the equality: $d[\ln W] = -\sum_i dn_i \cdot (\ln n_i) - \sum_i d(\ln n_i) \cdot n_i$ since the other terms are constant and when deriving they become annulled.

$$\sum_i d(\ln n_i) n_i = \sum_i (1/n_i) dn_i n_i = \sum_i dn_i = 0$$

And if we now introduce *degenerate states* at each level, the thermodynamic probability that describes the number of microstates that has a macro state (W), we will see that

$$W = (N! / n_1! n_2! \dots) \cdot g_1^{n_1} g_2^{n_2} g_3^{n_3} \dots$$

The entropy may be due both to $S(F)$ and $S(F_c)$

$$F_c = (1-f_1, \dots, 1-f_n).$$

the complementaries of F

$$F = (f_1, \dots, f_n) \in [0, 1]^n$$

where $f_i \in [0, 1]$.

blurry units

Where f_1, \dots, f_n to the extended field of $X = (x_1, \dots, x_n)$ that represent units or vertices is dimensioned n (space of n dimensions).

F is a blurry subset of X, and F_c becomes a complementary blur set.

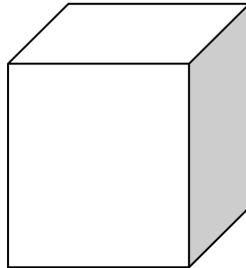
If we want to calculate $S(F)$ we need a reference,
 F_c and F can represent the symmetry in space 3-D.

Then we use $S(F / F_c)$

Calculate $S(F / F_c) - S(F_c / F)$ knowing that such a subtraction is never 0; It is *blurred scattered mutual entropy*.

"Simplex" equals a dimension 1 cube (unitary).

n= 3:



The highest degree of blurring of entropy is in the center.

Sometimes under a false premise, the government tries to put an end to the internet because it can endanger the indomitable hegemony of those who are not allowed to see; Such a fight can unleash a war of discoveries of "state secrets" and other prohibitions ...

Between dizziness and bass, it is as if he had half an adult and would like to have an indestructible or powerful physicist.
Play the game of hypocrisy and falsity.

Improving does not mean not lying but splitting directly. I am serious to unsuspected extremities (I do not want to make any mistake myself) then I am silent myself.

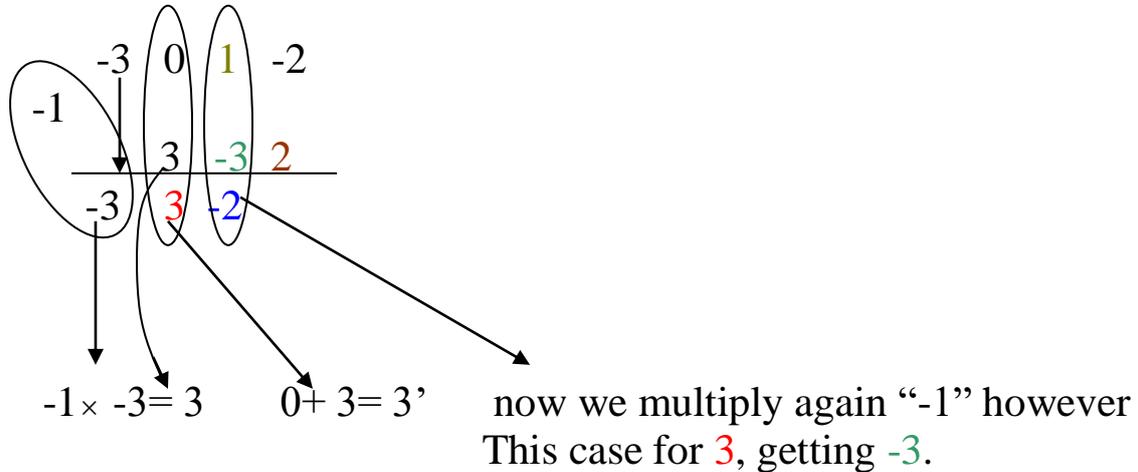
I do not have to purge everything I say. There is evidence, but in a "field", yes in other facets. Losing the fear of combining a thought with a fact.

The slaughterhouse of verbalising exactly and swallowing all the time in between (with the possible people who live there) leads me to reflect on the following dilemmas:

- a) explanation of the origin of scientific or religious life.
- b) Wave-corpulence duality.
- c) Hidden or sinusoidal variables.
- d) Comprehensive calculation for excess or default.
- e) Make a slow and careful sweep and a lot of fast.

ARITMETICS: RETURN OF POLINOMIS AND EQUATIONS OF MORE THAN 2 GRADES:

1^{ER} Ruffini: we will set an example: $-3x^3 + x - 2$:



Then we add again $1 + -3 = -2$

Finally $-1 \times -2 = +2$ to end up adding -2 and $+2$

It is necessary to know that this way we will represent the polynomial in smaller factors:

$$-3x^3+x-2 = (x+1)(-3x^2+3x+2).$$



Where we see that the -1, in the factorial representation, has changed, I am signing with respect to the calculation of Ruffini (♥)

Ruffini's goal is to decompose polynomials in simpler terms (factorization) and thus to isolate their *roots*; that is to say, if we have a polynomial $P(x) = x^3 - 9x^2 + 26x - 24$

$$\text{or } P(x) = (1, -9, 26, -24).$$

And we decompose it, we obtain $P(x) = (x-3)(x-2)(x-4)$

We try to have the simplest expression of the polynomial:

$$P(x) = (x+a)(x+b)(x+c) \dots$$

or $P(x) = (x+a)^n(x+b)^m(x+c)^r \dots$ where n, m, r ... are in number times that such factor is repeated.

Moreover, the signs of $a, b, c \dots$, as we have seen in (♥), may be + or -

Another way to factorize to the minimum expression (or to what is possible) is to divide $P(x)$ by a lower degree polynomial

$[B(x)]$:

$$P(x) / B(x)$$

It is assumed that everyone knows how to divide polynomials, so I represent directly $P(x) / B(x) = Q(x)$

or: $B(x) \cdot Q(x) + R = P(x)$ where R is the rest (no integer).

Other shortcuts to factorize a polynomial are:

$$(a+b)^2 = (a+b)(a+b) = a^2 + 2ab + b^2.$$

$$(a-b)^2 = (a-b)(a-b)$$

$$(a^2 - b^2) = (a+b)(a-b)$$

Note that the degree of $B(x)$ is $\leq P(x)$, and then, if we have not sufficiently reduced the polynomial, we can divide it by another in order to achieve that the term of *exponent major* [for example, in this polynomial: $3x^3 - 4x + 12$, would be " $3x^3$ "] will be annulled as far as it can;

As with divisions between integers:

$134/6 = 22'33$ and from the rest 2

$22'33 / 15 = 1'48$ and the rest 13

then: $(22'33 \times 6) + 2 = 134$ i $(1'48 \times 15) + 13 = 22'33$

Then we replace and we already have a factorization done

Now I will loosen a little thinking:

Everyone can freely comment; If you take it seriously or do not depend on each one.

I have a vision of what is perfection, added to my instinct to do the exact things as a good scientist. To hide myself and avoid the stumbling block and the savagery that await me outside the house ci.

Before marrying between family, then naixememnts had a high percentage of mental or congenital illnesses // the incompatibilities between genes or erroneous duplication of chromosomes were not known.

When you are patient and at the same time teachers, you are at a point of balance that does not allow you to feel too much about the wind's stroke in the face and nature, but the study of man and human relationships already draws enough force; It is an internal and integrated position in society.

Vulgarly it could be defined as: I see people and the massification and not the whole or the perspective.

Now we are already able to assault THE GROUP THEORY for the possible calculation of quintic roots:

An equation of p roots, will have p algebraic laws; The number of subgroups will also be p .

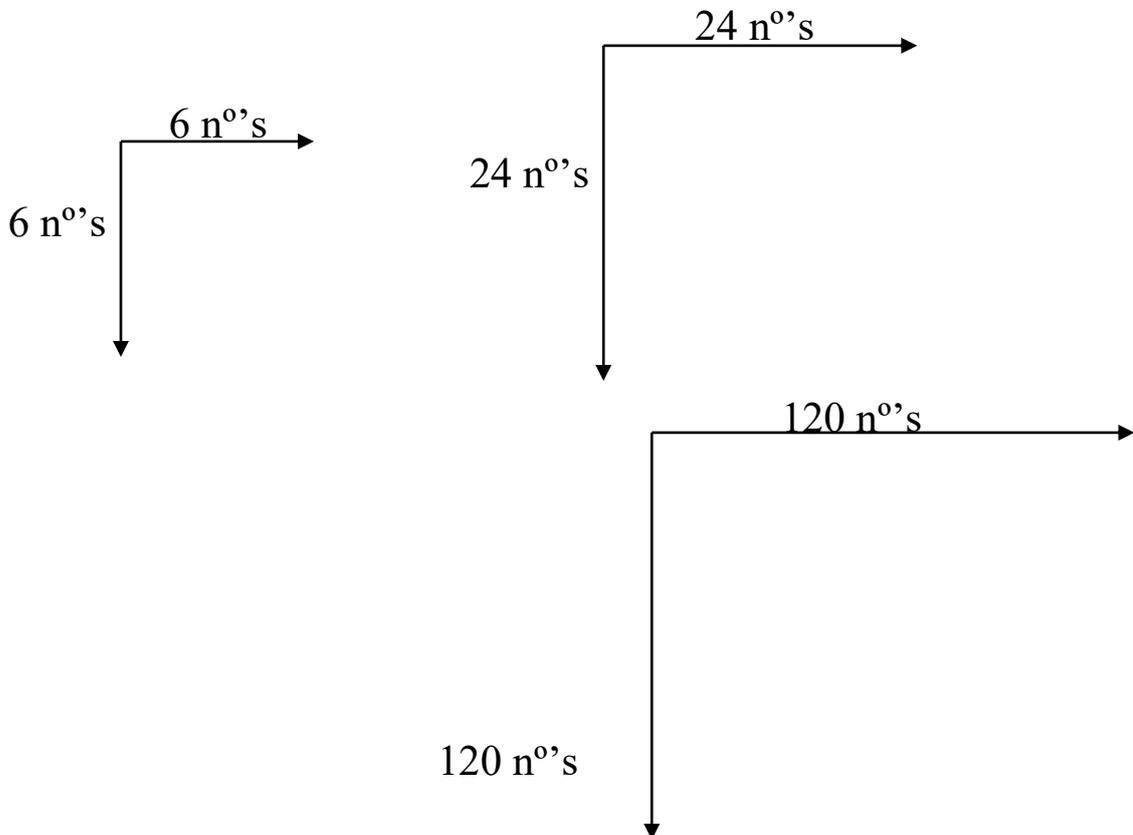
In $n = 3$, $n! = 6$; It has 6 variations and 3 subgroups within the group (taking into account that the unknowns are 3); The combination table will consist of $6 \times 6 = 36$ elements.

Another case is $n = 4$; $n! = 24$ and the combination table will be 24×24 items.

By logic, the subgroups must also be divisible by 36 or 576...etc

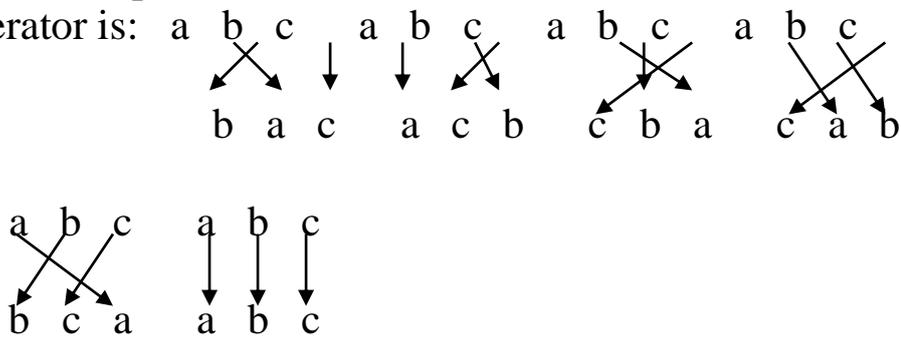
The subgroups (like the main group), is also a "closed set" and with life itself in the sense that when operating between elements of their property they always give elements of it.

Thus, we find ourselves with:





for example, in the case of 6: abc, acb, bac, bca, cab, cba, the operator is:

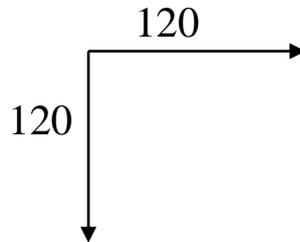


then: I U V P Q R
I
U
V
P
Q
R

They combine with each other and always give elements of the same group, and where is identity

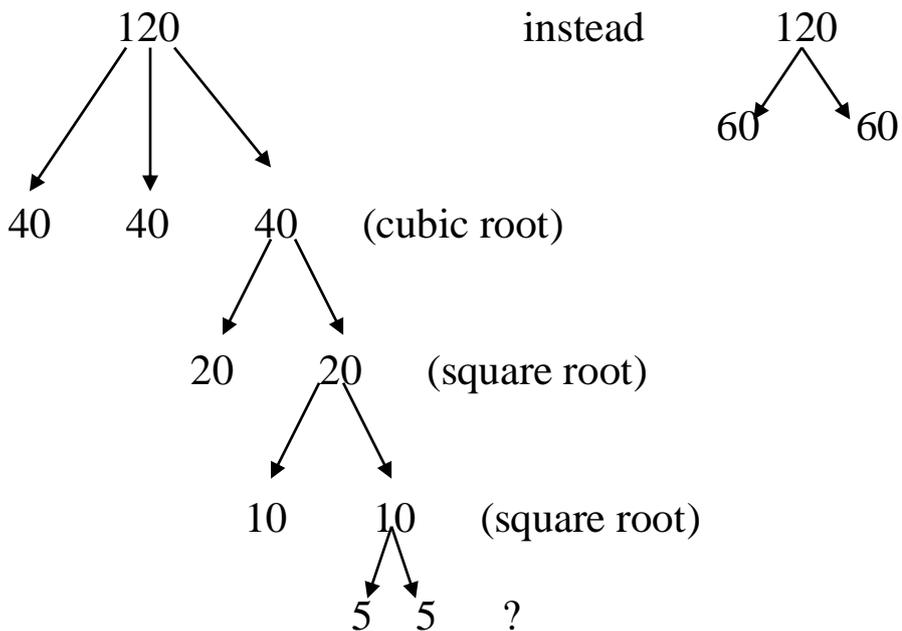
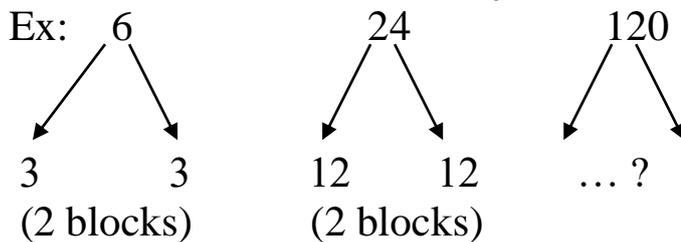
We have one of three sub-elements and a first element (besides the 6 elements), thus totaling 3; It is comparable to a system of equations: if there are 3 unknowns there must be 3 "algebraic laws."

In the case of $n=5$:



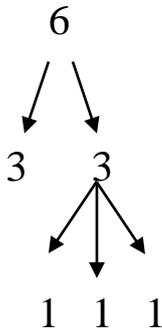
therefore, the number of algebraic equations is equivalent to n° of roots and this one will be equivalent to the same n° of subgroups.

the size of the blocks must always be the same dimension:



And there are no more possibilities, then is not valid.

example of $n=3$:



If the branch itself reappear five ^{enes} roots or roots can not be reduced, it means that the group of $n!$ Permutations have no solution.

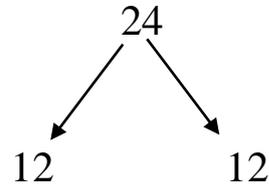
Each new branch implies normal subgroups

In group theory, to solve polynomials of degree ≥ 2 , we usually divide the number of combinations (factorial $n!$) Into a number divisible by it and thus obtain a subgroup [ex: $n = 4$

$$n! = 24 \rightarrow 12 \text{ and } 12] .$$

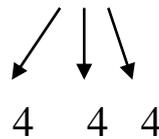
According to GALOIS:

$$n = 4, n! = 24$$



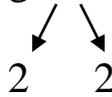
if $24 \times 24 = 576$, we divide it by 2 and get 288, which are 144×2 . so we deduce that the root is squared.

if we ramify it by 8, we will have a cubical root: 576 divided by 3=192, what is $8 \times 8 = 64$ ($192/64=3$).



where $144/3=48$. If we now divide 48 per 16 we will get 3 (which means cubic root).

continuing: 4



that we can deduce by the same procedures as a square root.

and finally: 2



I make a monumental "odd" with the yearning, the dreams that I chase, the sensation of self-destruction, good character or bad temper ... and that are instincts that lead me ...

I smoke like activity that helps me not to lose my nerves ... if I smoke I do not do the things that touch me ime I completely give it to the "bun". I have no way of avoiding it and escaping.

What do I intend to decide between freshness or greed ?!

Try not to get tired. When bad data comes we must be in "carma" and try to kill the face compost outside (you only know until you are there).

Tie heads and explain deeply to see who takes me and drives me towards good.

When I dreamed about chemistry the world falls to me (it's not the only one I like).