Talking to Myself - 2

The whole question technically when it's dialectical is the relationship between mathematics and science, not merely "in general" but most specifically at the present stage of high tech. Nothinglike that was present either in Hegel's day or in Marx's. Thegel rejected mathematics as any sort of method for philosophy, but he gave it high ratings if you limited it to analytical problems. At that point nowever, it is has reached the kind of high point that actually signifies its collapse, that is to say, all the pile-up of facts first cannot answer the next stage. to anticipate that, dialectics shows that it's not only a method for philosophy, but a method for all objective is Sign as well as subjective matters.

Mary went into it more congretely, and at the same time more abstractly, by singling out second negativity -negation of the negation -- to prove that they had not been able to get beyond Newtonia physics because unless you work out what is the absolute opposite, not just the opposite, but that type which is the highest point of contradiction, just as it was necessary to see relationships to move from bare addition and subtraction to algebraic formulae and to geometric space, so it is of the highest necessity to **for the highest necessity to for the highest**

In the case of Russia, what they were aiming at in 1931 was how to get the the Plan, to produce what it is supposed to produce when they have no competition of private capitalists to monkey with. They "found" Marx's Mathematial Notebooks and tried to see what it said about capitalism. And they found that the law of value in explaining the class struggle, the exploitation of labor needed, the despotic plan of capitaly nu into all sorts of contradictions in the competitive market world when each capitalist makes his distinction regardless of what the others do. They therefore promptly decided that the law of value is socialistic because they don't have that market competition, internally, never mind the world market. They therefore gave a very high priority to mathematical science. To this day they have the best of the world's scientists and the mathematical studies begin in high school, if not grammar school, To think that they cannot work out the computer because they don't have all the states mechanical machines which the West, and more importantly Japan, has, is to forget that they were the first to reach space with the Sputnik, and that they now have a great deal more than we more than have in space-stations and it will take/all the technology for us to catch up.

that they have reached in ammies and tanks to reach with Star Wars, and what the Aceland collapse did was to give the go sign to a deathly arms race between the two nuclear powers.

Some very Rough Notes For a Letter if I will decide to write one, to Robert Cohan

11/5/86

lst, in relationship to it as a self-criticism of ourselves, not very full it is true, since I do not know computers or mathematics and in any case it would not be of interest to Cohen. But the point is that the self-clarification of ourselves on the question when a new phenomenon appears academizedly, how can dialectic method <u>directly</u> relate to that new phenomena.

2nd, as physicist can Cohen shed any light on the relationship between mathematics, natural science and history, <u>not</u> as mere fact but as to their meaning. Cohen didn't show that in his 2/15/85 note to Kevin where, 1st he thinks Bukharin is the issue to us because of its relevance to the scientific and technological revolution. No, it was of relevance because of his vulgar materialism <u>as shown specifically in the Plan, so that</u> <u>he wasn't the least conscious of the fact that what</u> <u>was the consequence of Plan, the scuttling of the law</u> <u>of value the following decade</u>, MUCH less that it would be preceded by the destruction of the "general staff"

of the revolution, himself prominently included.

3rd, and the central heart of the issue at hand, is philosophically--that is, how can phillsophically-for show the process and direction a particular science, in this case mathematics/computers "resulting" from calculus. The whole task I put before Franklin was the specific quotation of the meaning dot the changing method, the fransforming method, i.e., dialectics vs. mathematics, the way KM used it in his Mathematiccal Notebooks which Franklin quoted on p. 19 of High Tech pamphlet, which talks about"differential calculus appearing a sa specific type of calculation which already operates independently on its own ground. The algebraic method therefore inverts itself into its exact opposite, the differential method ... " I asked Franklin to continue this question of transformation into opposite, "derivative," "inversion" and "reversal of "operational symbols" all the way to the roles", negation of the negation and not be diverted by calculator lingo like algorithm and instead stick to Hegel's synthetic method in that chapter two on the Idea of Cognition in Section 3.

I felt that Franklin had caught, but noneof us did, but was so modet about his "modification" that we didn't notice", I wanted him to tell me this time exactly what happened. And this he wrote me on 11/4/86: June 1st, at 1984 Ron had not used the words

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limits at all, that he suddenly brought in in a modified version in August 1984, footnote 9 on p. 6, he not only introduces as if that were the point at issue was "limited value", but says of Marx pointing "to the 'childishness' of the assumption that the right result is attained by hanging out in the right neighborhood...without taking the plunge to 0" and then Ron expands the etror: "the point of no return is 'no limited value' but stands by itself in a relation of equivalence. It's not so much a 'limit' as a new beginning** which can itsekf undergo differentiation.

*The first (6/84) that Ron issued on his own had a fantastic end of the title and that was that the fetish of high tech that we was writing on Marx's MM <u>AND MARXIST-HUMANISM'S GREAT DVIDE</u>. When did we ever use in print Great Divide except for Lenin's <u>PN</u> during world war I. Only once, did I use in a Archival sense (probably some perspectives) that <u>another</u> Great Divide could be said to bek in the 1980s as the designation of Marxist-Humanism. But to say Marxist-Humanism's Great Divide **EM** in a discussion bulletin of one, with no **HM** one having seen that one which was so declared, is incredible.

**Please note how he misuses new beginnings! Not only is it not a new beginning as we have made it a category of open doors at the highest point, the after the Absclute, but at the best it could only be the beginning of the same type of thing.

Franklin calls attention that Marx did not only critisize Newton, that was the beginning of his historical study. "Ron ignored the second and third phases that Marx saw in the historical development, 'rational'D'Alembart, and 'algebraic' La Grange. What I meant at the time was that Newton's method was not the method used by mathematicians today, when the critique of Marx did not apply.X I should have noted that Marx had a different critique of those two phases, and Ron should have showed what those criticisms were and what was newtoday as Marx didn't stop here Hegel stopped, with Newton and Liebniz."

Franklin also mentions that where Ron talks of "the limit that defines differentiation as "the limit of dy/dx as dx approaches 0" this is wrong, because dy and dx are symbols introduced <u>after</u> the limit is taken not before."

What Franklin ends with on the question being how does the function change, not just what is it at a certain point, would really require my digging into the philosophic critiques of rationalism before I can really write a letter, again if I do decide it should be written at all.

VILOPN, P. 209-210 from chapter 2, VILOPN, P. 209-210 from chapter 2, Idead Cognition, but first touched in Dectrines Of Being, Section II On Quantity, VIL'S PN P. 118. 10795 OVER

ULIPINZ, on infinite mathematics and refers to Enseld.

anne (

RSC Dear Robert Cohen,

Suddenly, I remembered when first we met in Connecticut soon after <u>M&F</u> was published and I amsure I did not speak on the Absolute in your class, and I certainly did not have Hegel's three final syllogism in <u>M&F</u>, although I had worked on them in 1953. So you must have challenged me on the parrellism I drew on the Absolutes of revolution and

counter-revolution. I do remember that when I was at your home you had <u>Philssophy of Mind</u> in your library and we then discussed those three final syllogisms. Now I know that it wasn't only because I didn't know about computers, and I doubt the computers in the 1950s were anywhere near centerstage that they are now.

Despite the fact that I know you didn't think our, bulleti on Marx's Mathematical Manuscripts was any sort of importan t breakthrough, and you get referring in gour letter in Kevin to "facts" as all that had been written on these Manuscripts long before our bulletin. Of course I disagree with you, because I know very well what had been written, and I know very well that it was no Marxist-Humanist view point. Re But that is not what I want to argue about. What I wish you would help me with, and as a physicists you must know a great deal more than i do on the subject, is the direct relationship between what Marx did in the Mathematical Manuscripts on differential calculus and what is now the problem with the computer. And the Russian specs are doing the very same ting as the Western spece, trying to wish away the time lag between science and its "application" i.e. the production line.