

50
39

VW Cy 7-3057
Teacher
27D

Brown and white
4596686

in top of Agm. ^{1/4} Vaughan Hall
4pm (307)

BRAIN

BRAIN

Helel *(circled)*

UNIVERSITY NOTE BOOK

Jerry *↖ ↘* Kanorski 1948
NAME _____

ADDRESS _____
Cmnd rept. and

SUBJECT _____
memorial org
Cmndr Under
Pres

Sacnite



S-1815 - 100 LVS.
U. S. A.

J. Bronowski

The Athenaeum

Pall Mall

London

SW 1.

Home 434-9514

Walker Dead RA 3-1000
Arthur M. Silverstein Ext. 2807
Wilfred Rall (4325) Home

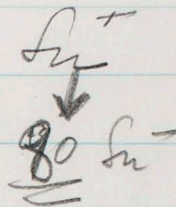
Bonus

J. Br c/o Mrs Reva Gerstein
78 The Bridle Path
Toronto
Ontario
Canada

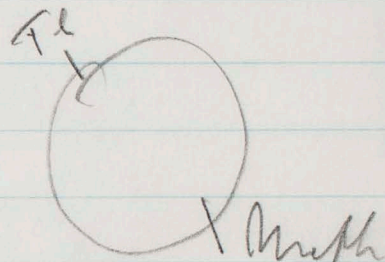
McGarr

H.

structural +
no iron



Lu⁺ is dominant, probably
affects resources



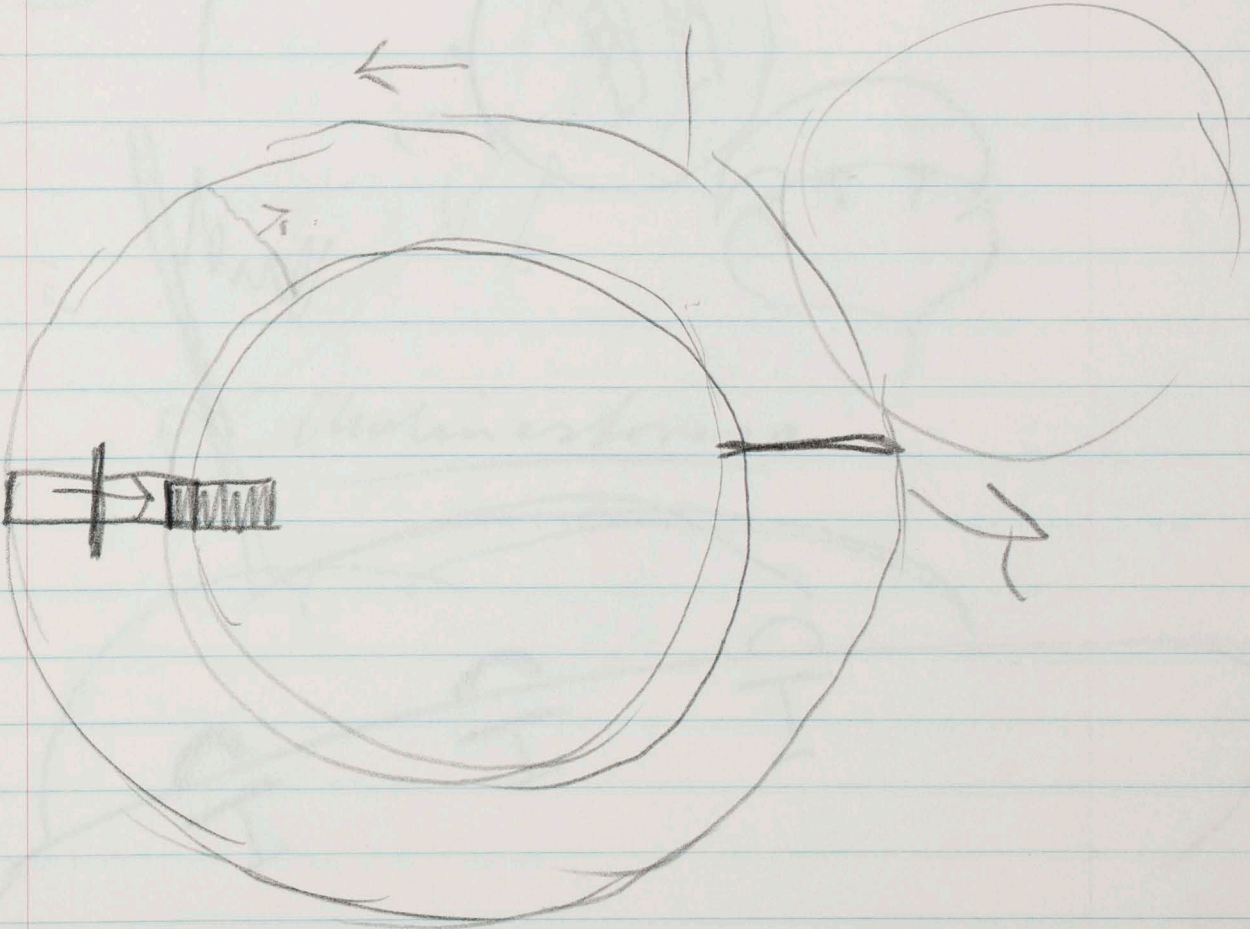
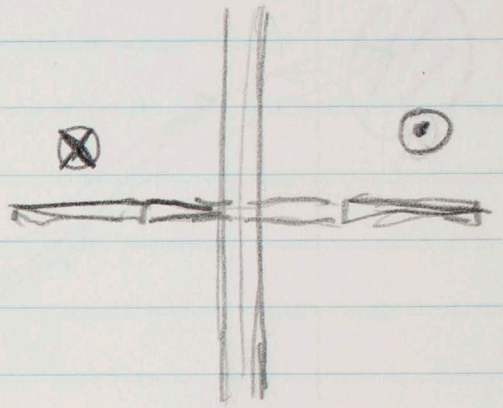
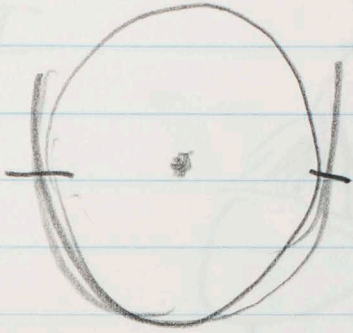
Arginineless but *Streptomyces*
overcomes it

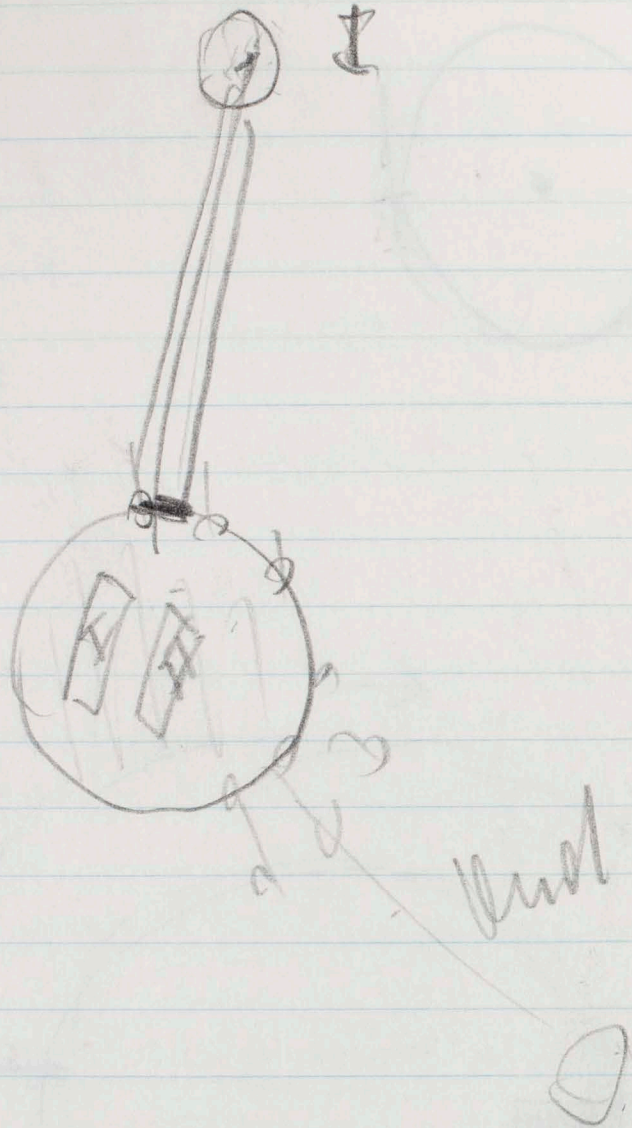
N ~~can~~ multiply in presence of Lu⁺

10 bacterial mutants strict res.

30% of those are undependable

Beckwith





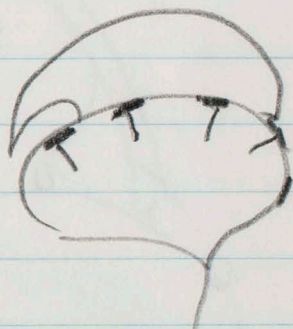
lll

(H)

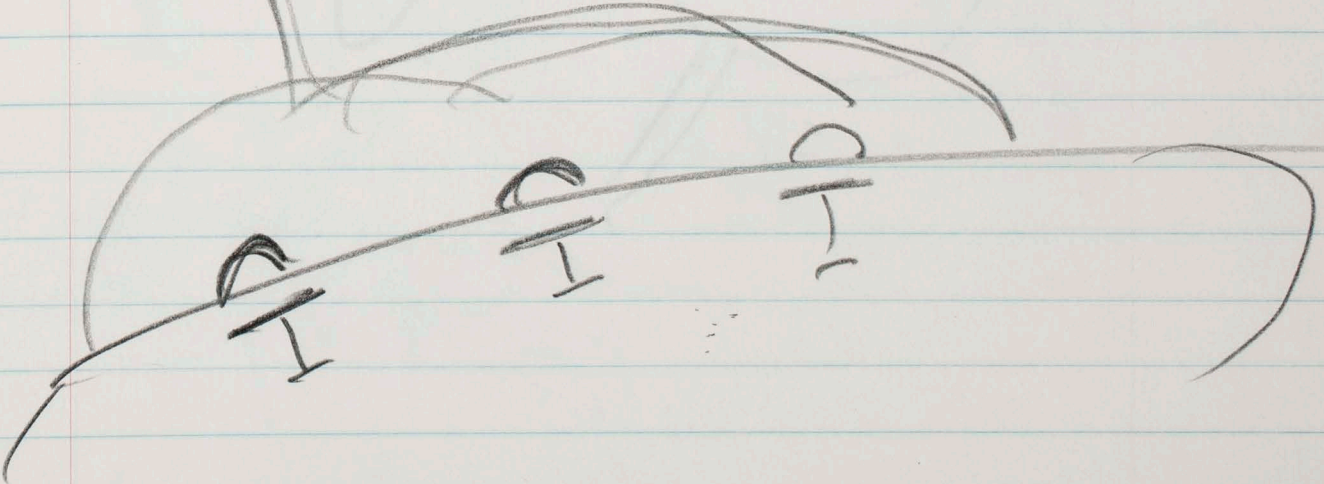
H

(llll)

(H)

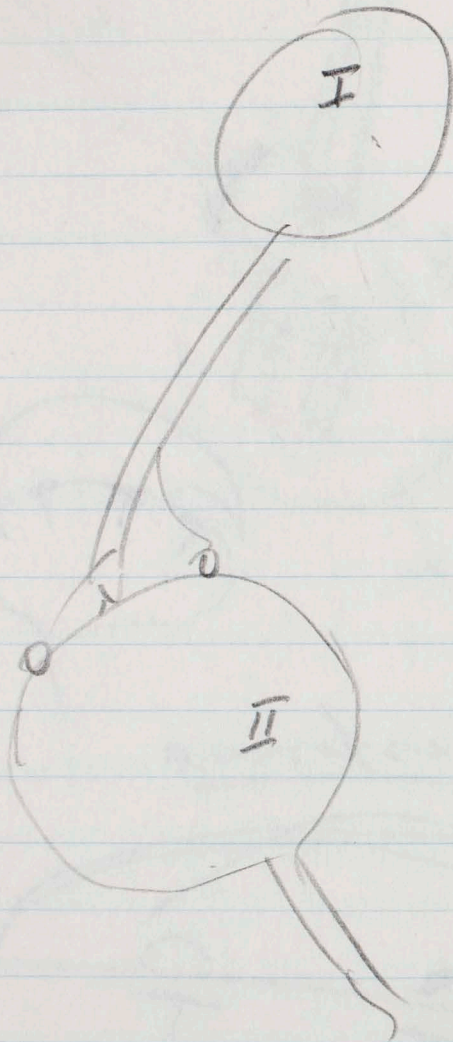


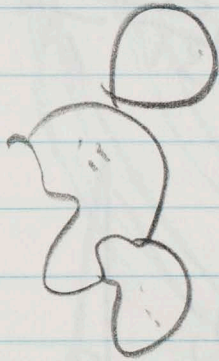
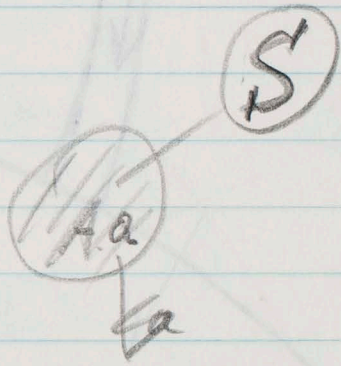
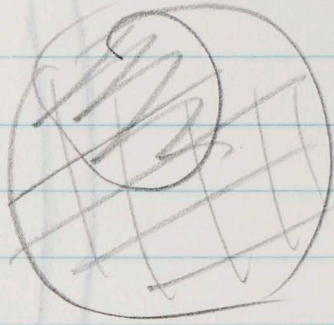
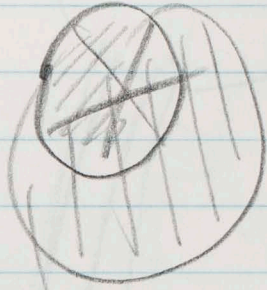
Chalivestores

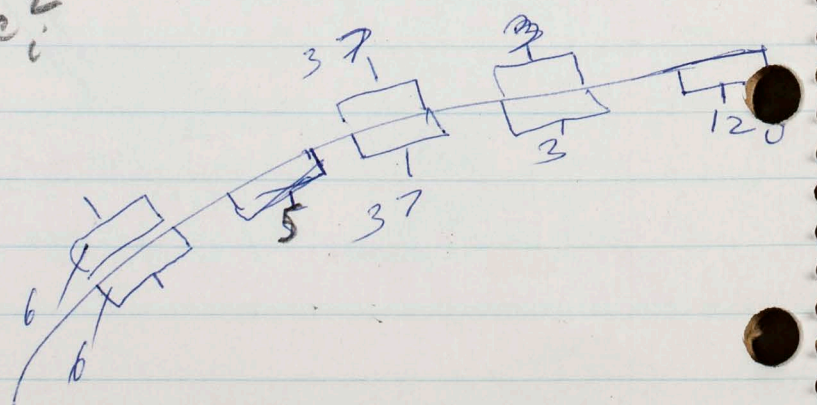
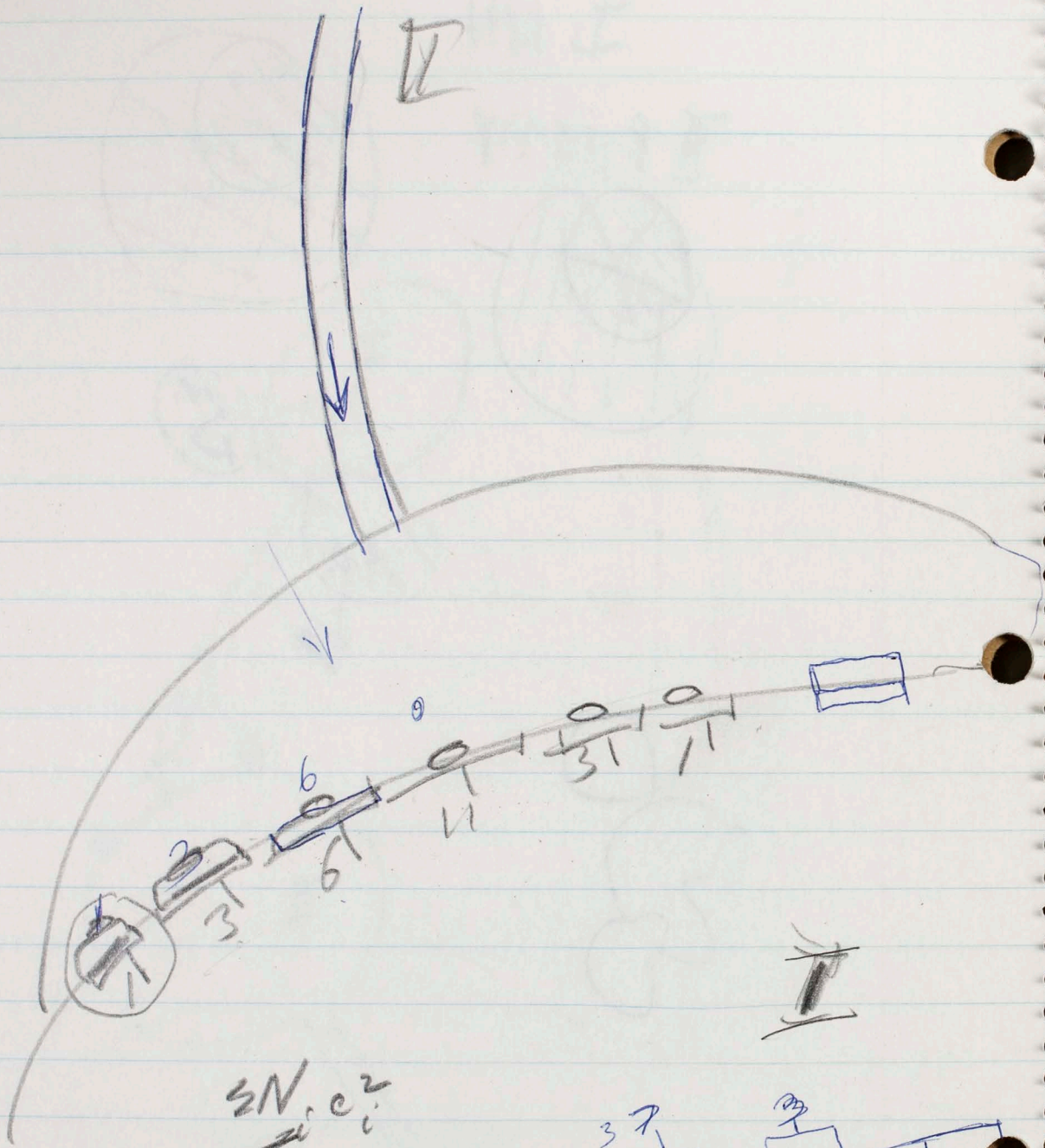


III I

II III I

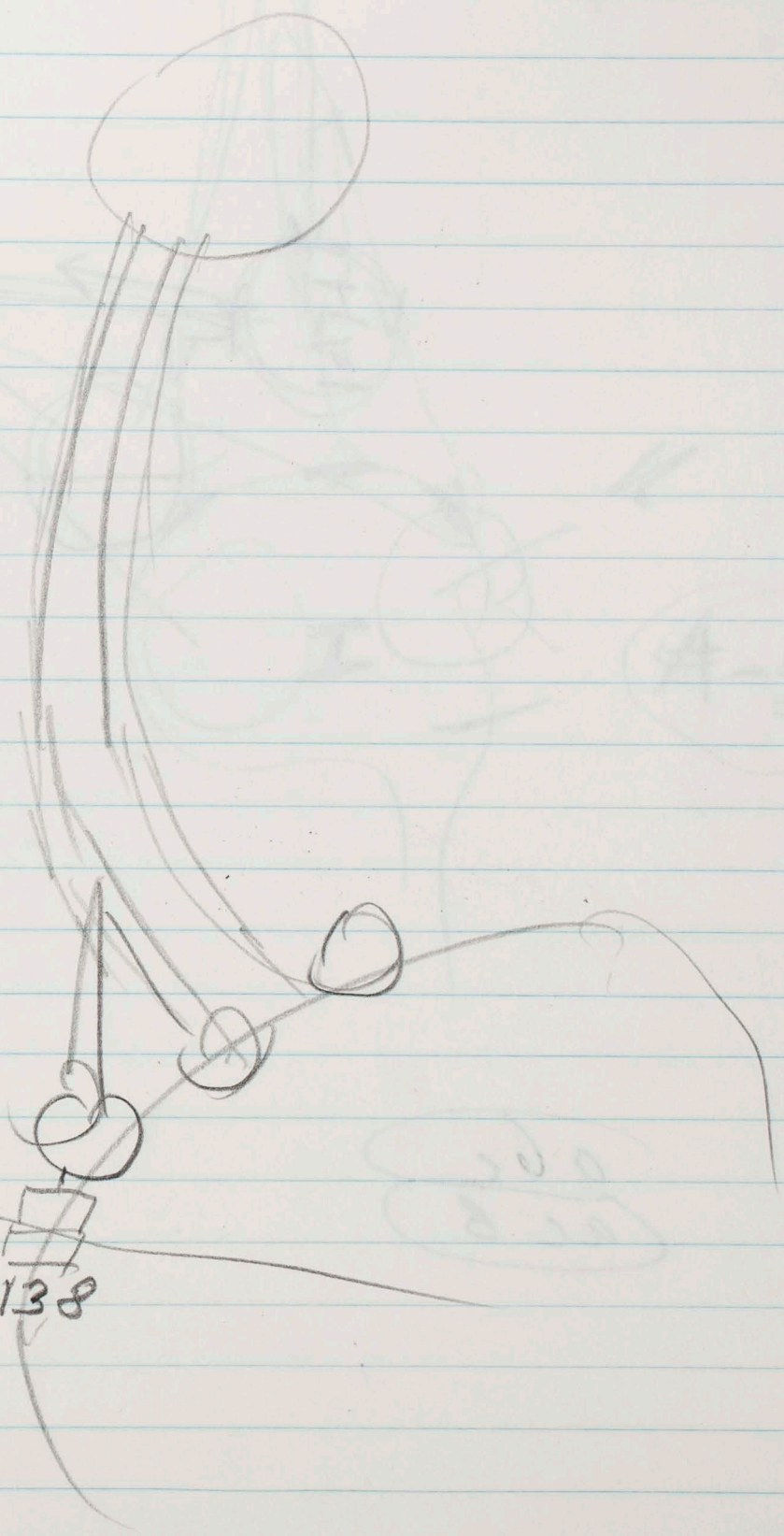






For plates

H

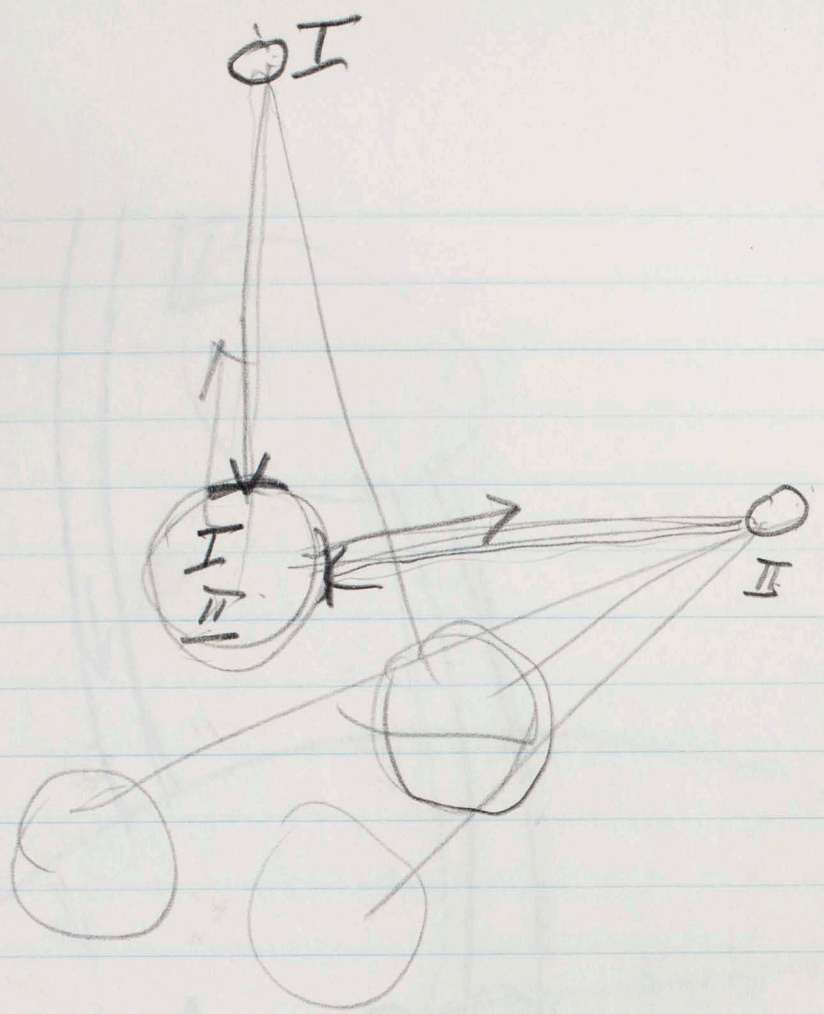


137

138

A-2

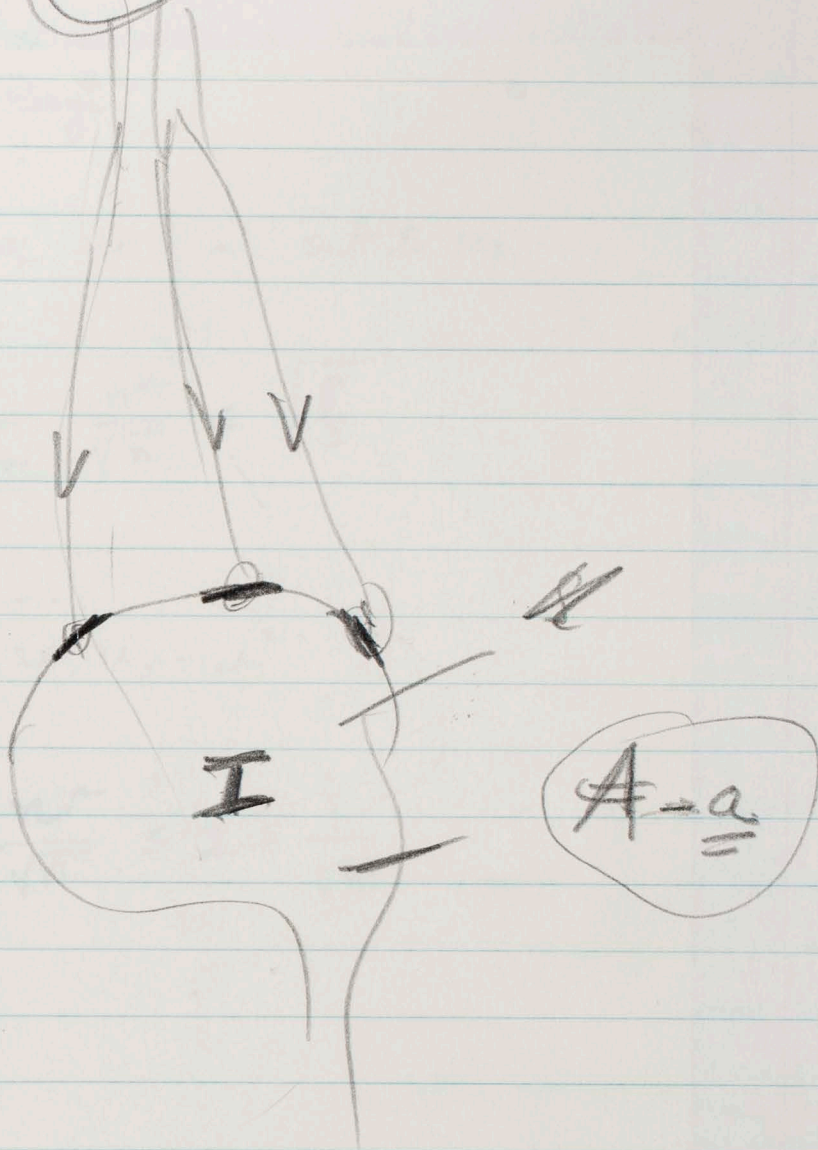
200
8.10



abc
acb

plastic

H



$$A = \underline{\underline{a}}$$

P. Radu + A. Rényi

1, 2, 3, ..., n.

n^* no of no's in set to rep.

$$\sqrt{2 + \frac{4}{3\pi}} \leq \lim_{n \rightarrow \infty} \frac{n^*}{\sqrt{n}} \leq \sqrt{\frac{8}{3}}$$

P. Erdős

1, 2, ..., i, 2i, 3i, ..., i²

$$\sqrt{2} \leq \frac{n^*}{\sqrt{n}} \leq 2 + \frac{1}{\sqrt{n}}$$

factorial

1, 2, 3, ..., n

$$H = \underbrace{i_1, i_2, i_3, \dots, i_{n^*}} \Rightarrow \underline{i_k - i_{k-1}} = 1, 2, \dots, n$$

n^* = no of nos in H.

lower bound

$$\frac{n^*(n^*-1)}{2} \geq n$$

upper bound

$i =$ largest integer $\leq \sqrt{n}$

0, 1, 2, 3, ..., 9, 10, 20, 30, ..., 100

1, 2, 3, ..., i, 2i, 3i, ..., i²

n^* numbers

$$\min_i \left(\frac{n}{i} + i \right) = 2\sqrt{n}$$

$$\sqrt{2 + \frac{4}{3\pi}} \leq n^* \leq \left(2 + \frac{1}{\sqrt{n}}\right)n$$

1-7

a

b a

c b a

c b

c

abc

abc

abc

May 5 1964
Experiment for
Met

look for C^c for γ gene.

$c^+ z^+ \gamma^+$

select in presence of PTG an
metabolase for γ const
(some of these will be z const.)

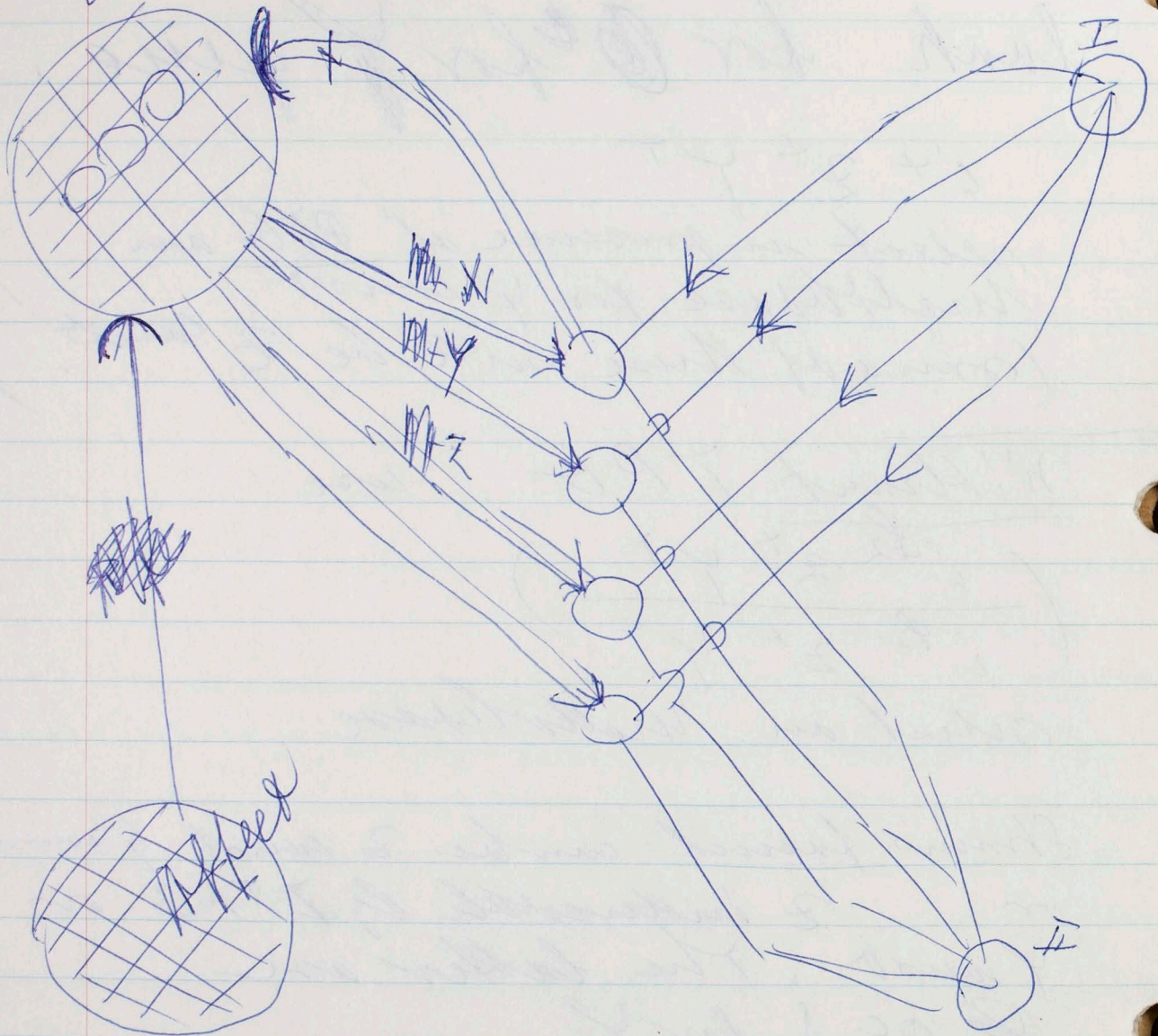
Without TPC use

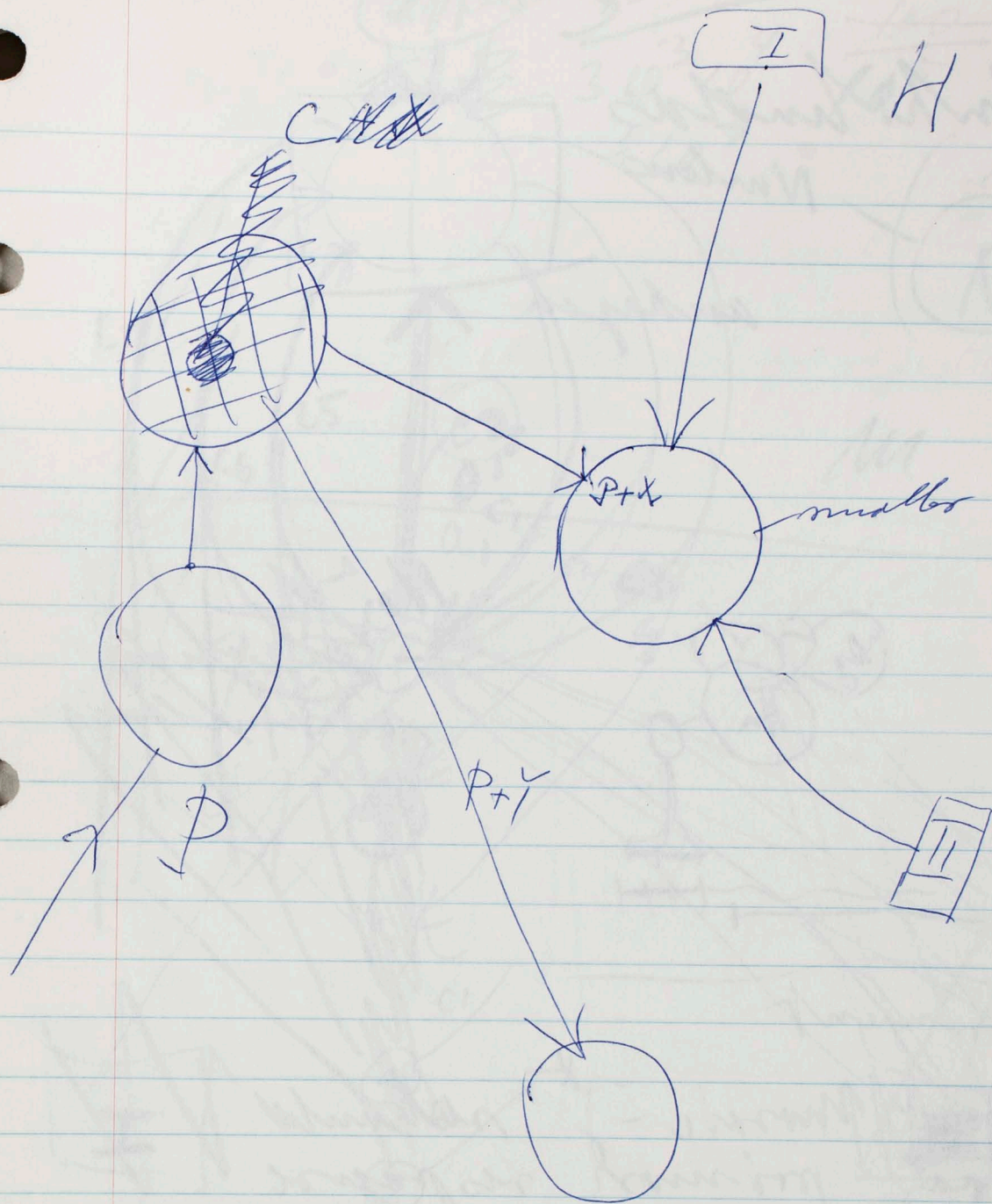
$\left(\frac{c^+ z^+ \gamma^+}{c^- z^+ \gamma^+} \right)$

select an metabolase

strains found can be z const γ const
or z inducible by TPC or
 γ const. The latter are
 C^c for γ

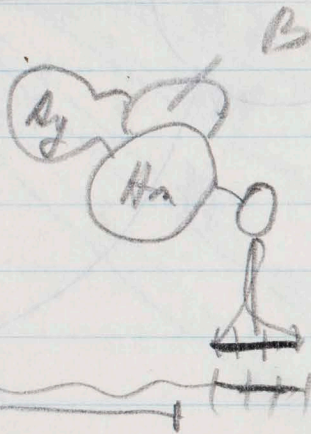
Q11 c2, c3
concept number





Antibodies
Nucleus

antigen



No A
enzyme
in nucleus

Experiment

Tubercle Mucin - γ^* should
destroy primary response

but soluble antigen - γ^*
should destroy secondary response

affect 3000 words

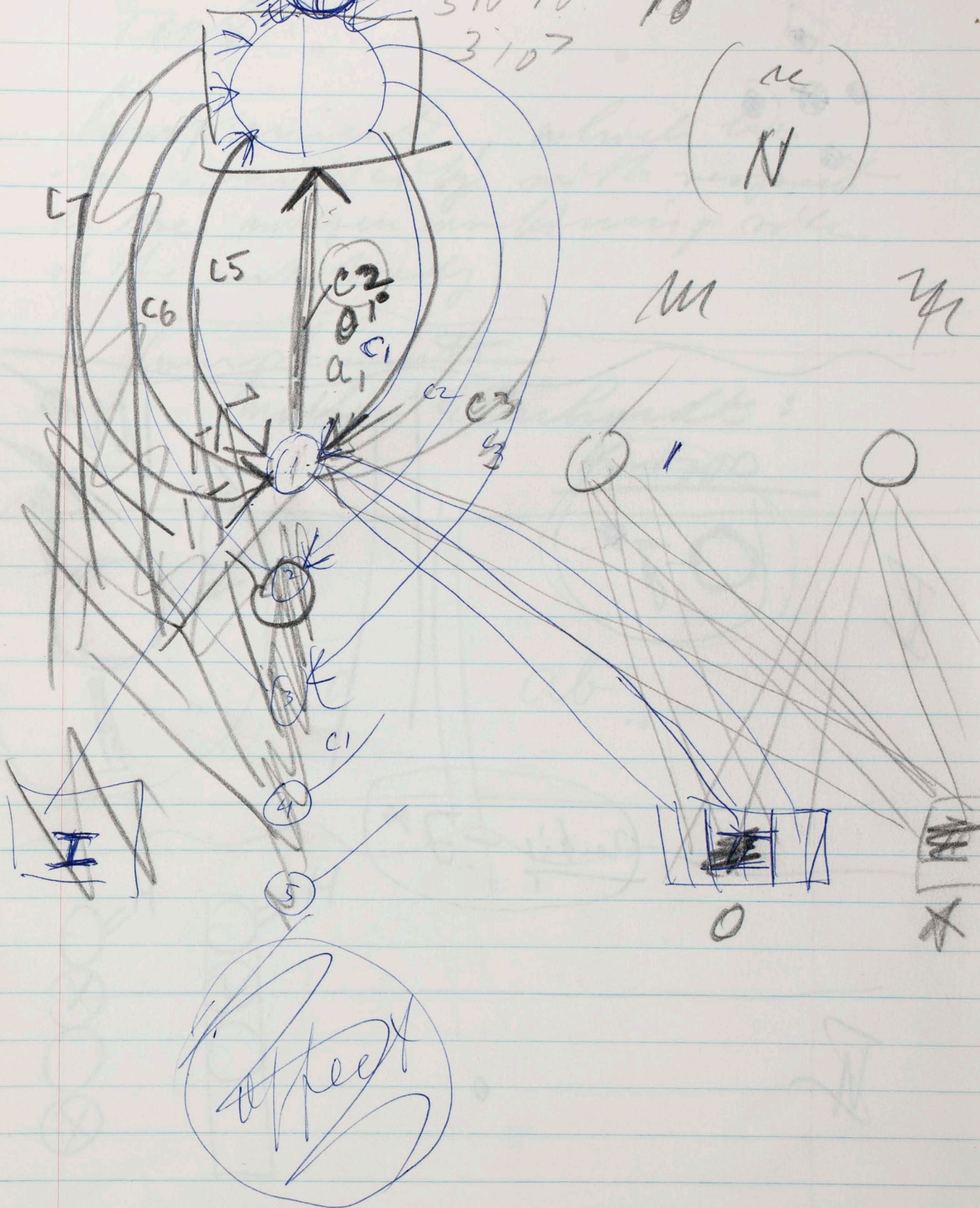
$3 \cdot 10^3$ 10^4
 $3 \cdot 10^7$

~~100~~ ~~10 aff~~
 10^5

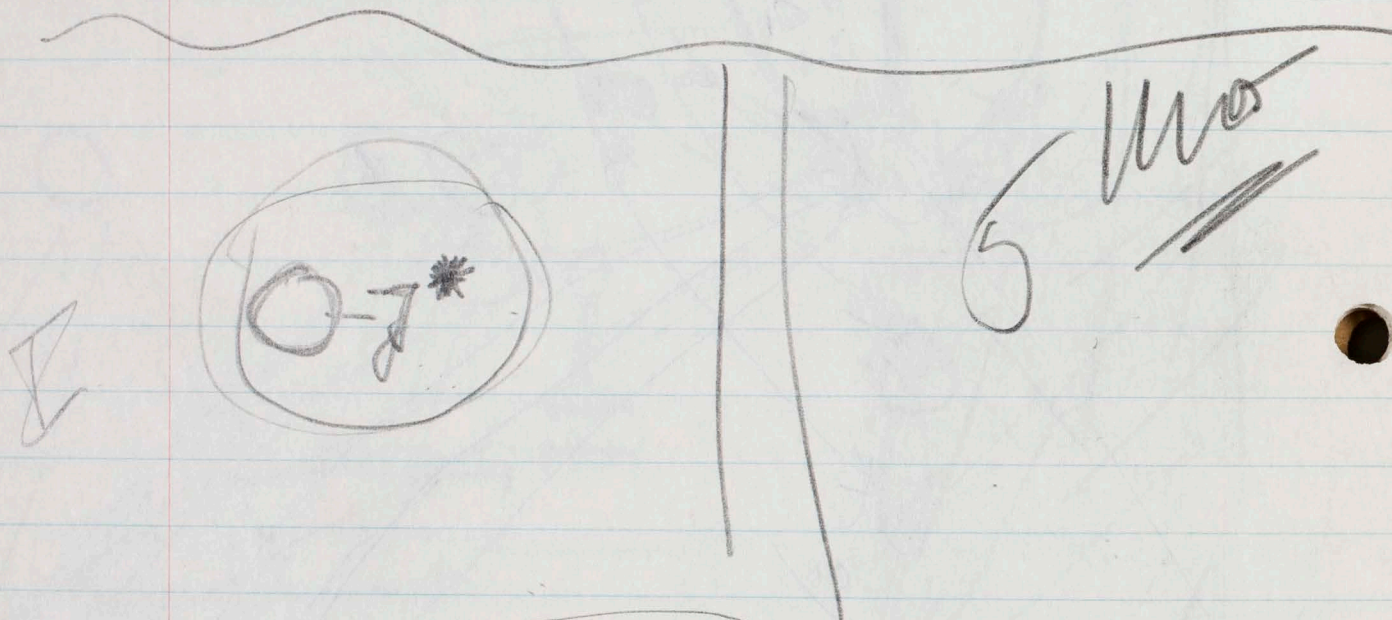
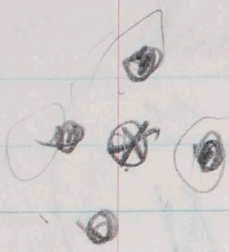
(∞
N)

M

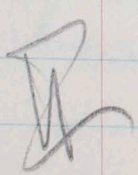
2/1



0 0 0 0



Ranking - J*



o

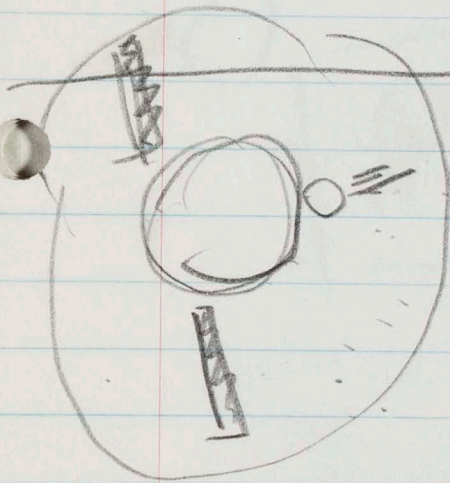
Text:

Complement, which has
no specified with respect
to the antigen combining site
of the antibody

Complement

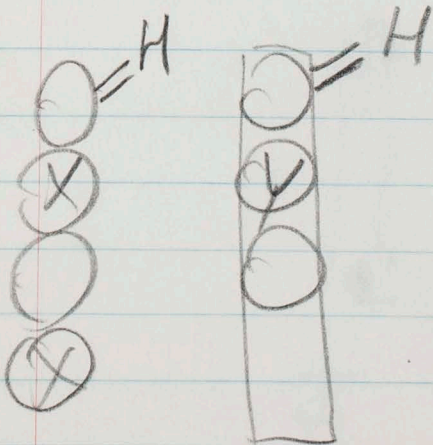
Muller-Blanchard:

Butz



q

ab





H

Plant



R

H

~~100 days~~
~~4 x 10⁴ days~~
~~4~~ ~~4 x 10⁴~~

H. H.

~~10⁹ seconds~~

4 x 10⁴ 4 x 10⁹ second

~~for second half~~

4 sec per memory trace — } 3

10⁹ cells

$\binom{N}{m}$

$$\frac{N(N-1)(N-2)\dots(N-m+1)}{m!}$$

10³⁴

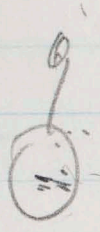
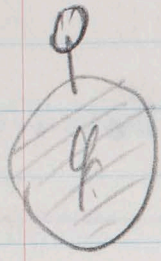
$$= \frac{\binom{N}{m}}{m!} = \frac{N!}{m!(N-m)!}$$

ln X = ln N! - ln m! - ln(N-m)!

2
1

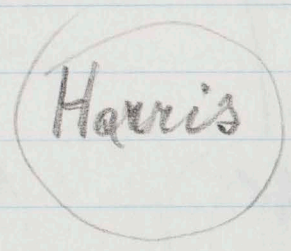
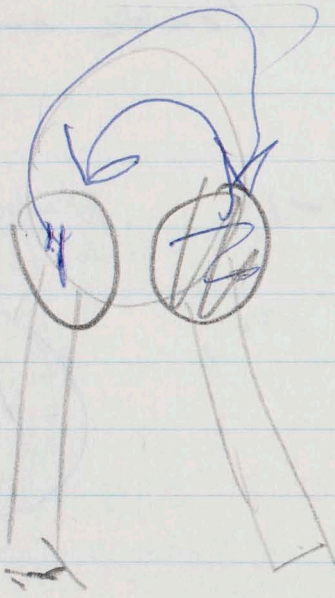
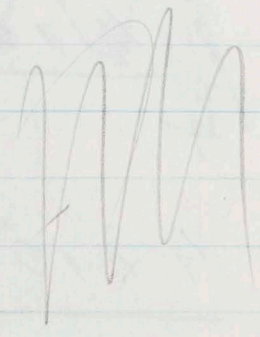
1.
2.
Podium

10



I

I



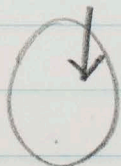
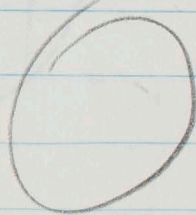
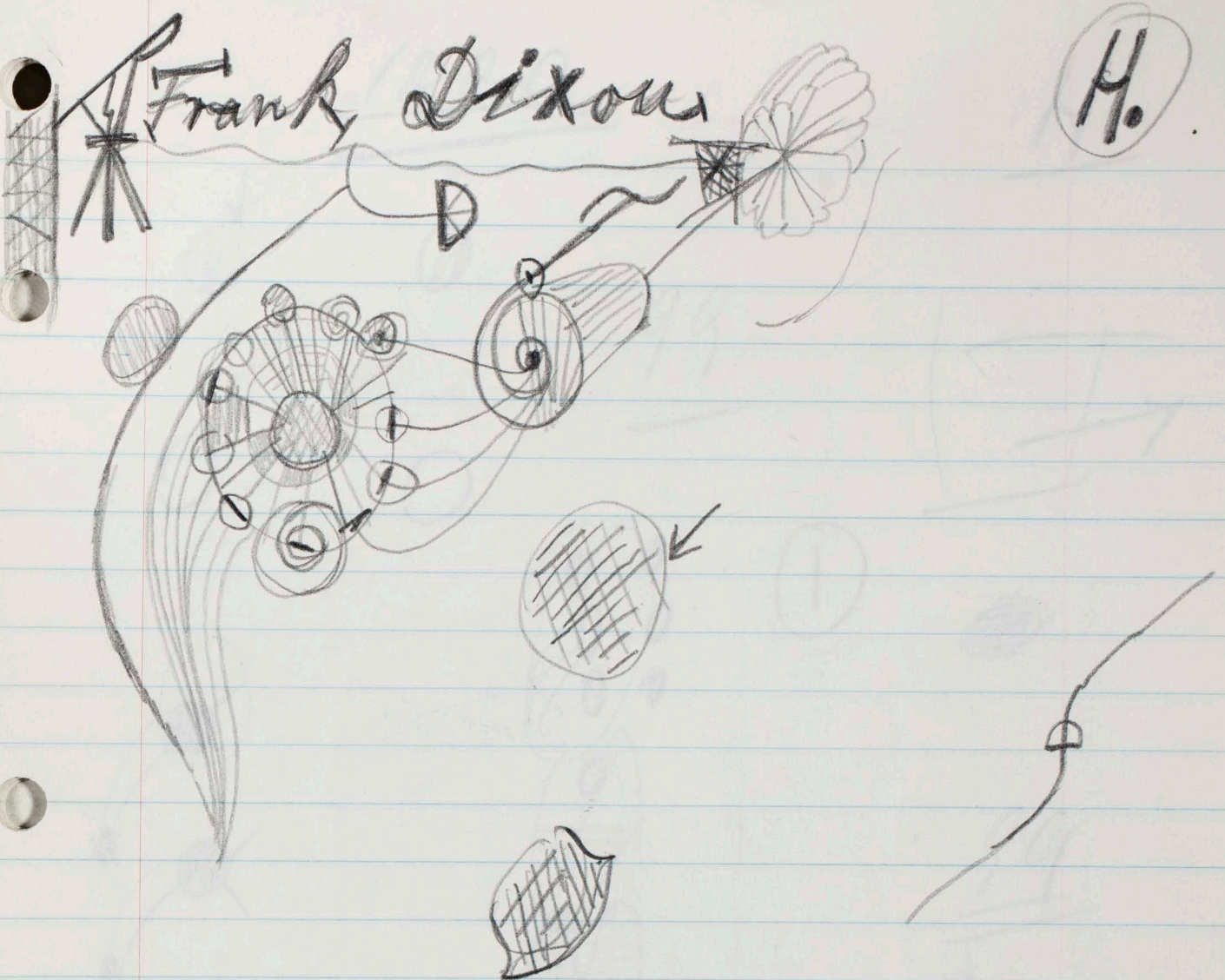
ab

ba

Makin odan

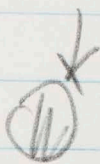
Frank Dixon

H.

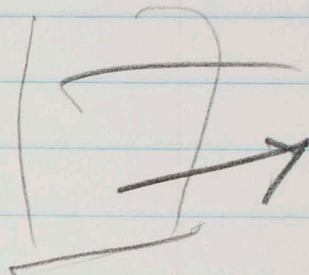


1000

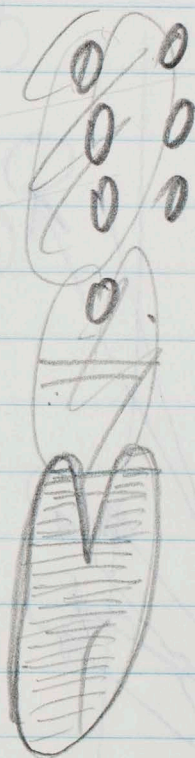
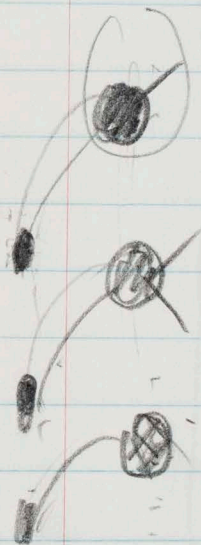
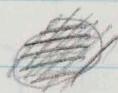
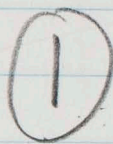
H



99

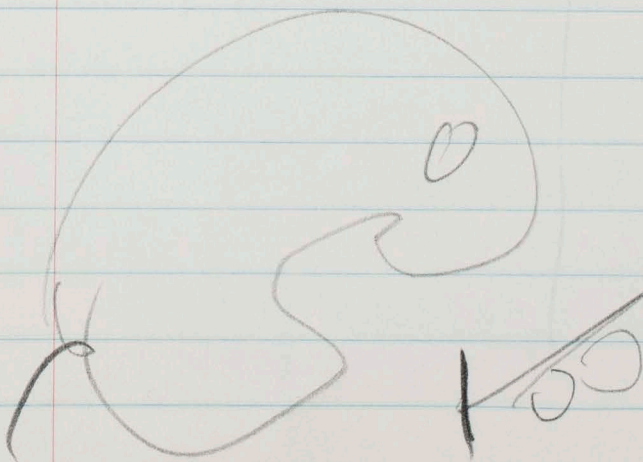


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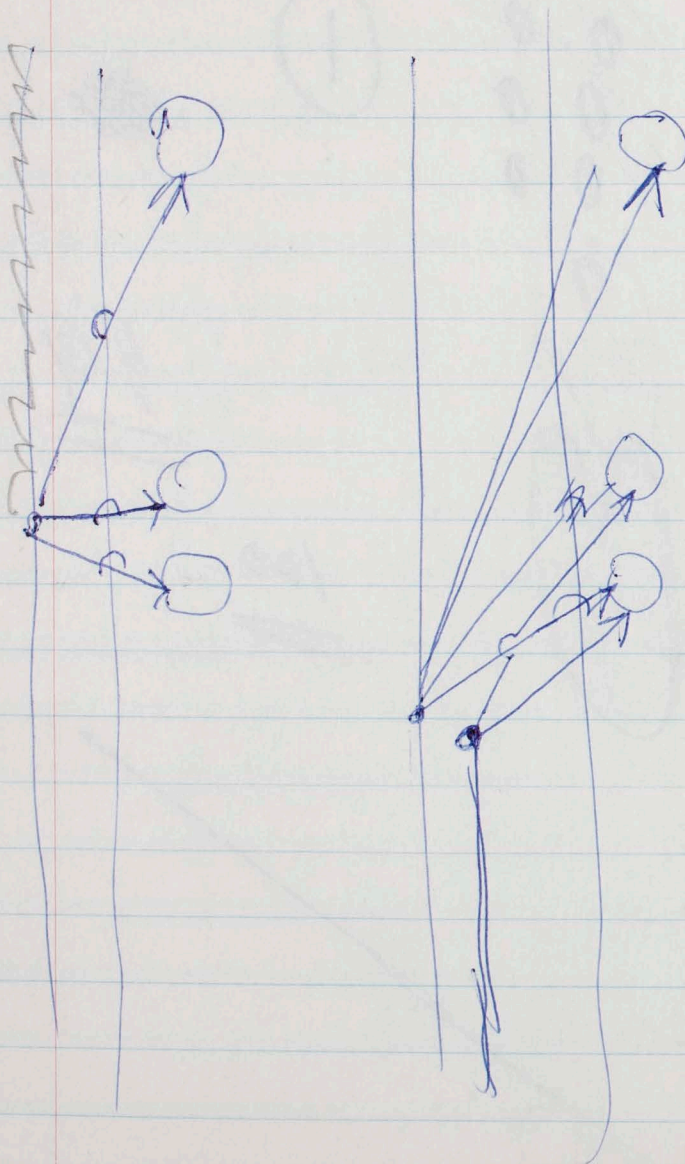
99

100

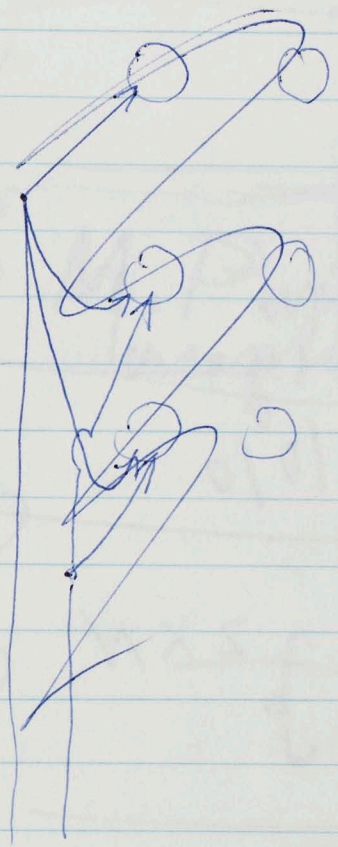


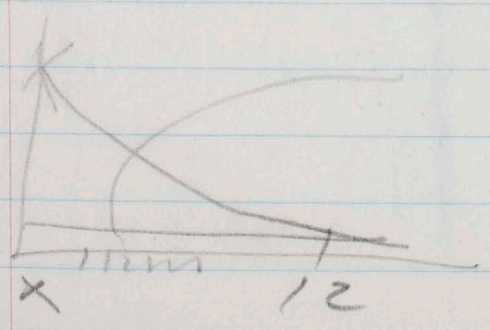
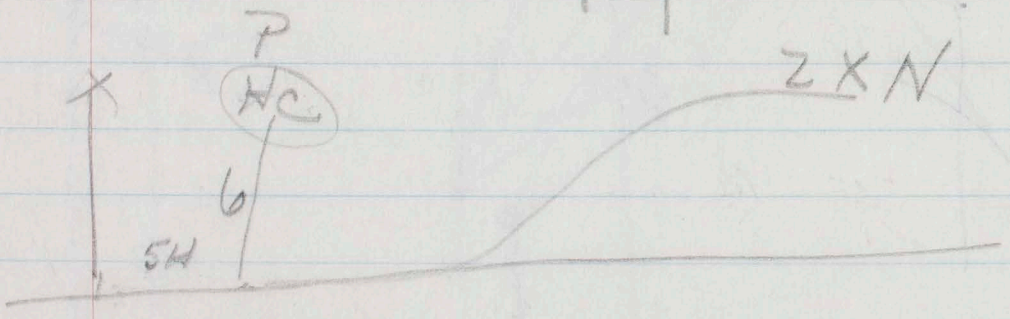
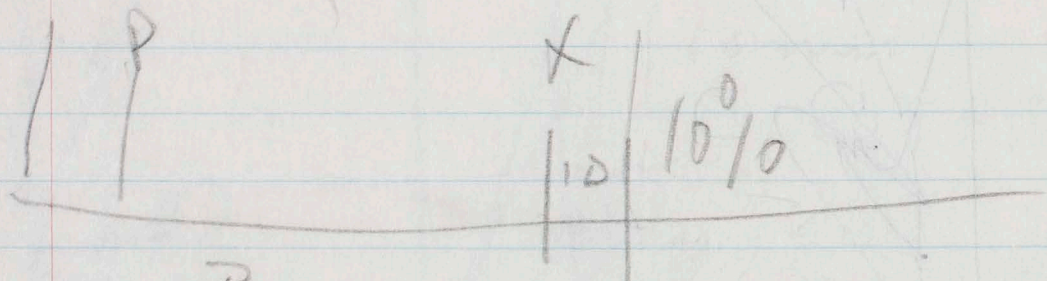
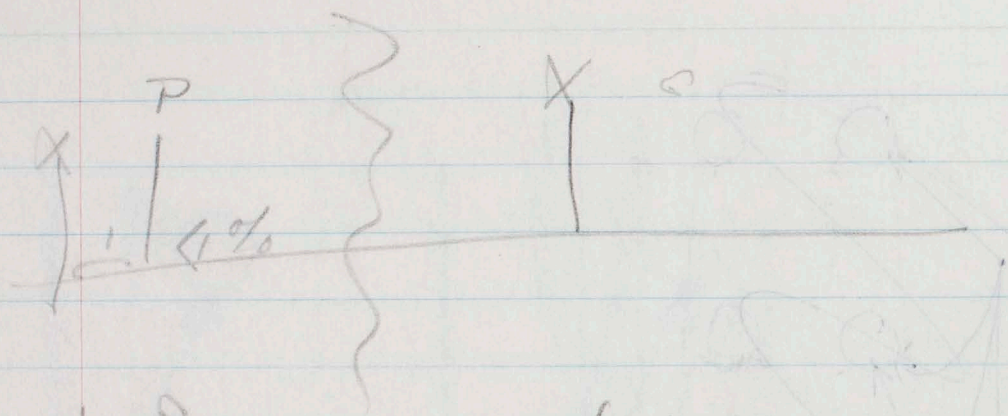
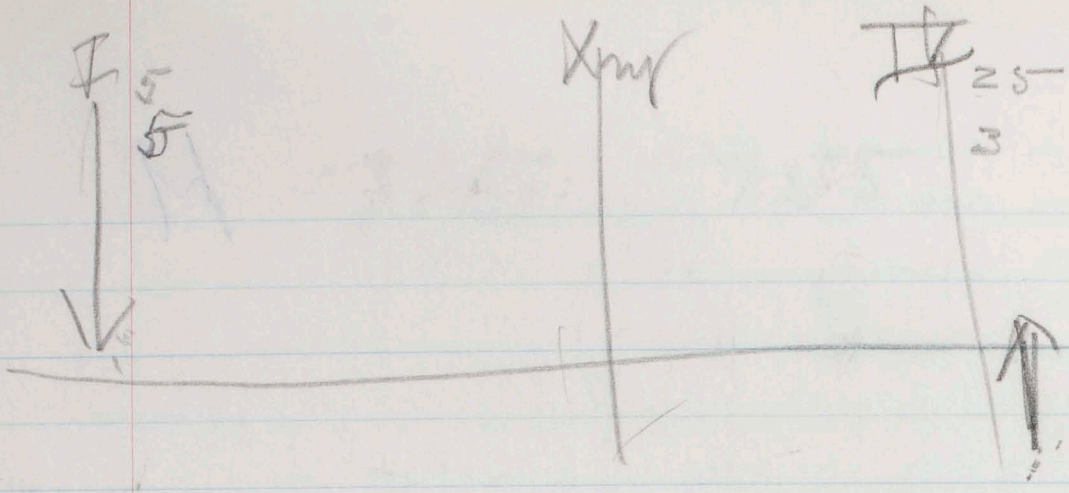
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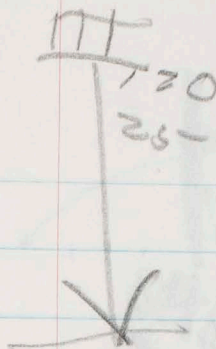
755



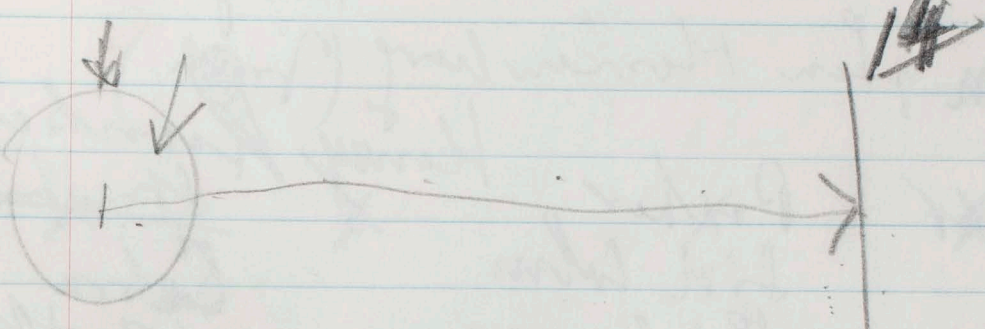
M





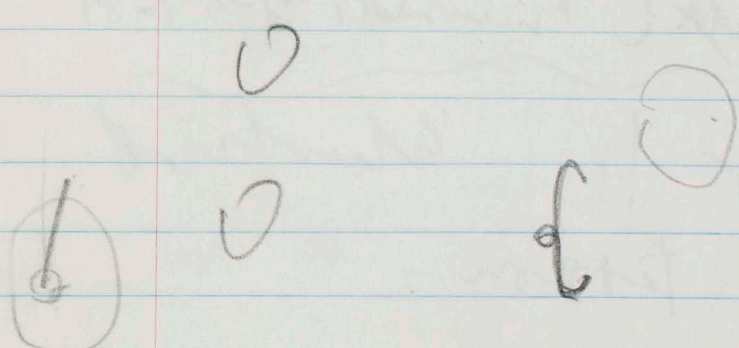


Acroflavin - Fern



6 M. Pavin
incapto

18
—
3) 4,50



benzocaf
blocks macrophages

(M)
benzocaf - Schwach
aktivierung in Immunan

Fuchs // Nicholson
John Humphrey // Benacraft

Jenna Schusterin
May 8

Udwin, Len Hosenberg (Jack)

Strickland Parker Harvey Kunkel
Stucke

Ed Cabra
Edelmann

Cabra
Florence
Quinsville

Rubat

Dyer

~~Uhr~~ Uhr
Ed Brenner

Seymour Ben

Evans

3 hrs
dick

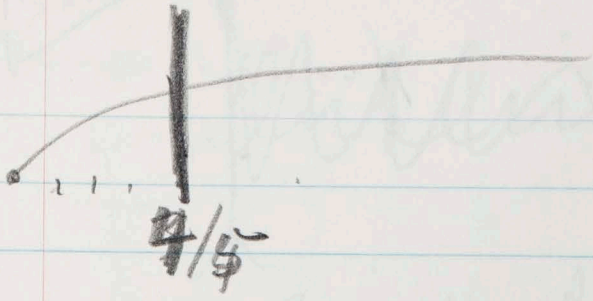
922 239
Kinsdale 3-37-81

Peter NIH

Ringer // Whitford

Person

(14)



(11)

x

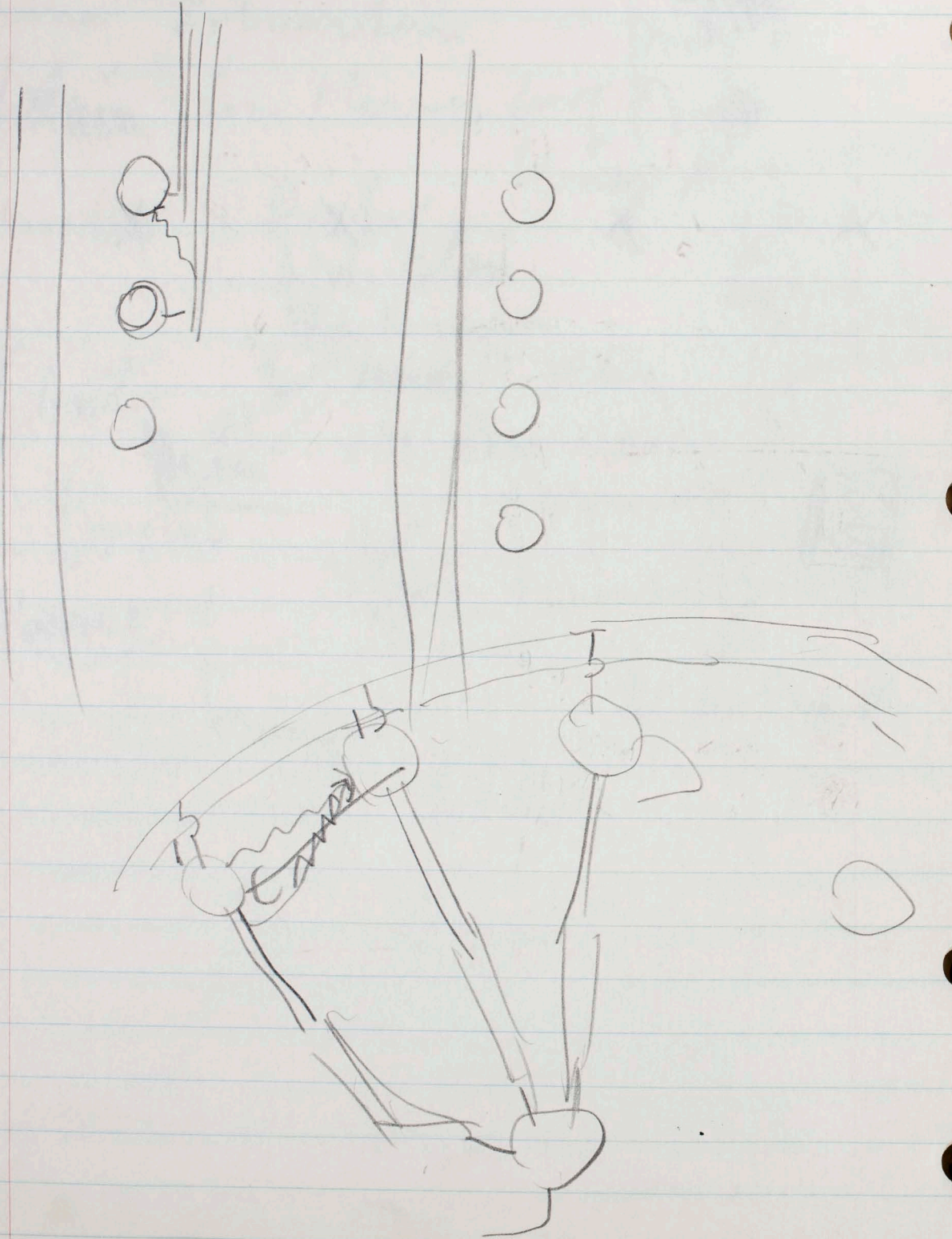
x

x

x

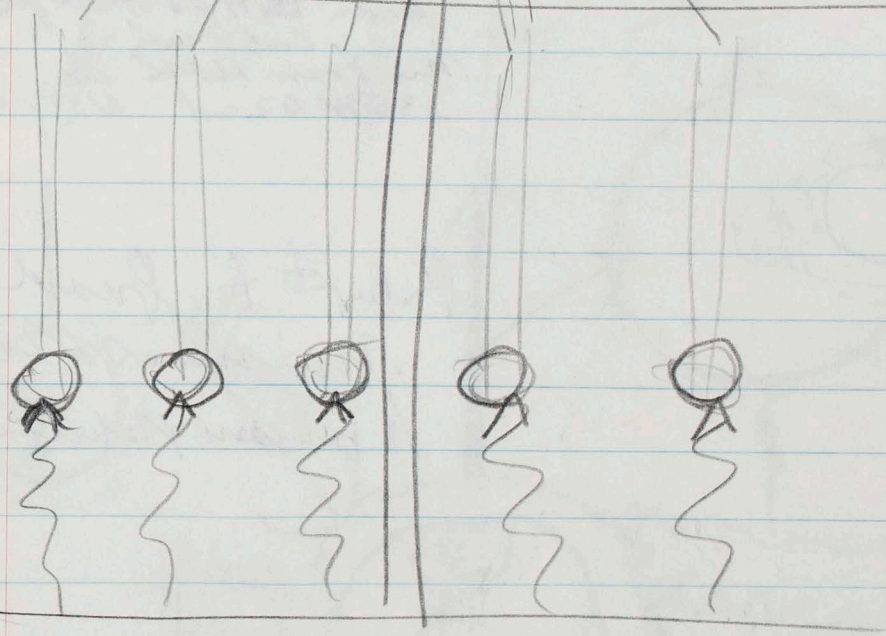
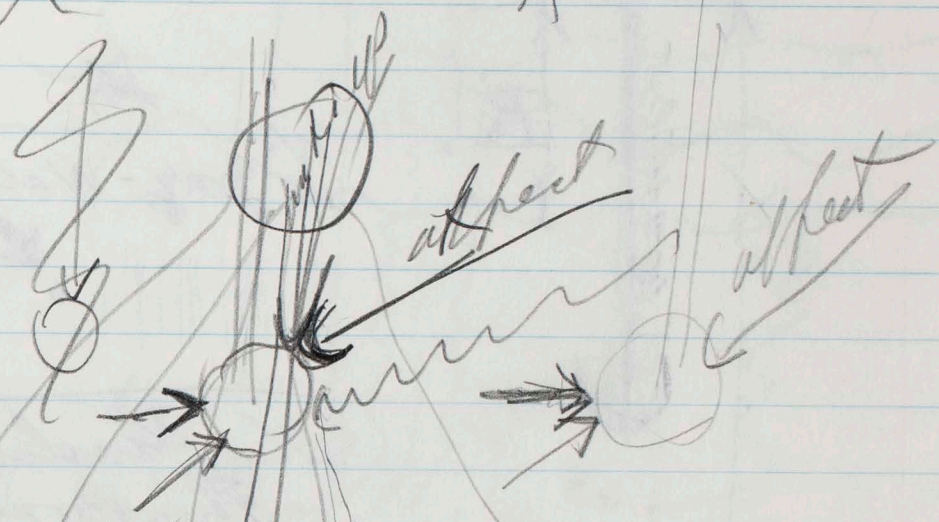
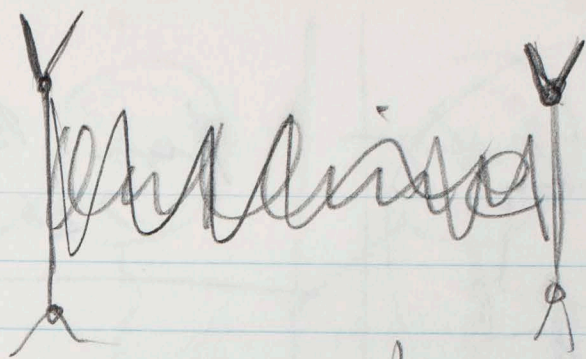
x

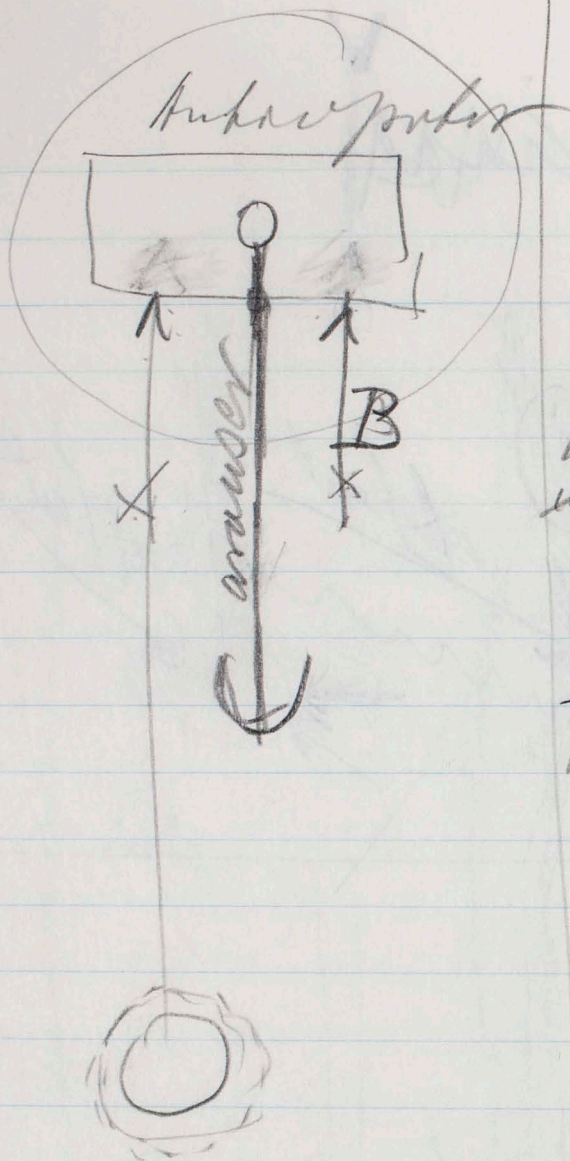
20
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—
—



6

3 ans



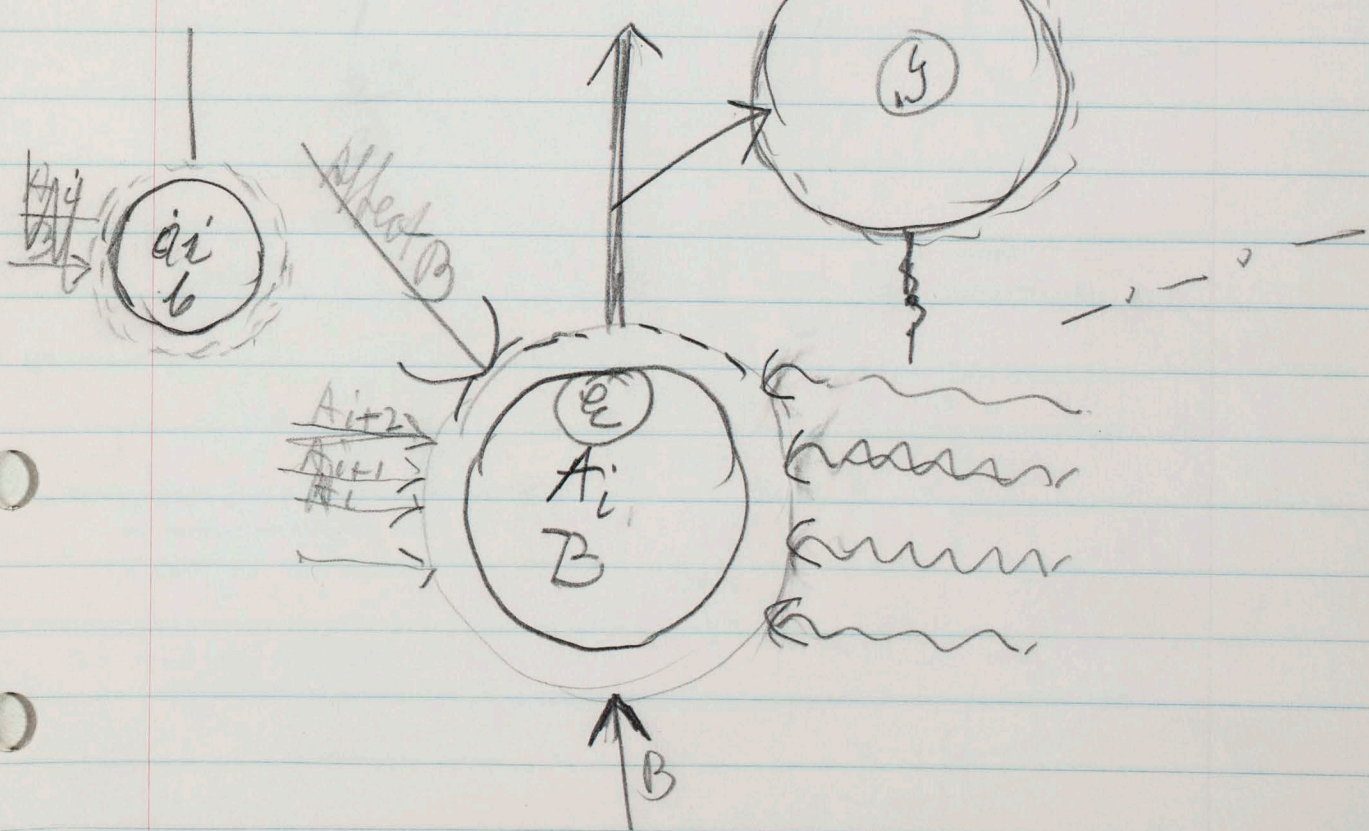
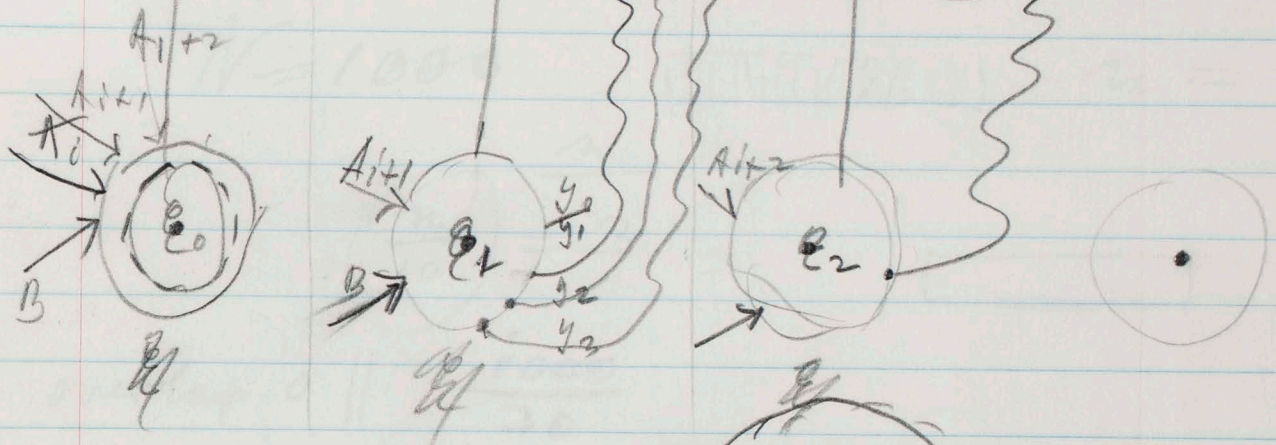
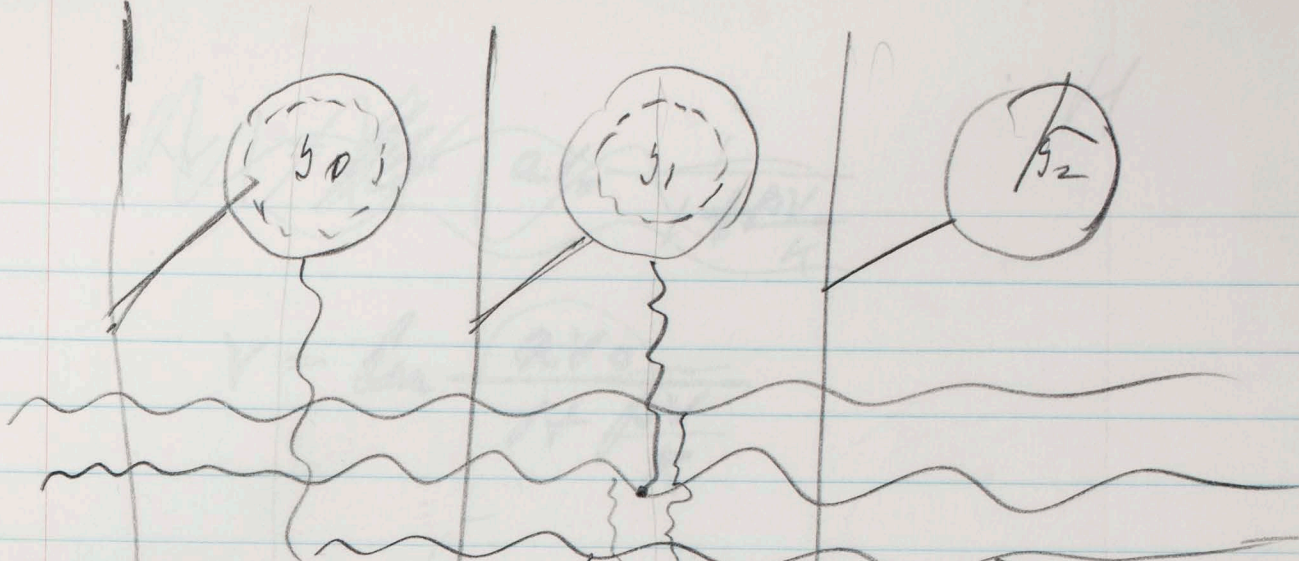


Ann Barnett
726-4739

W. | *
W. Gray-Walker
Birmingham

The Machinery at
The Porcine
Dean E. Woolridge
Culpeper
The Iron Mill Co
330 W 42nd St. N.Y.C.

Robert A. Grant
Minnesota
A person of substance



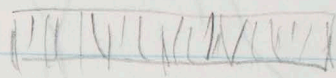
H

~~$$V = \frac{aV_0}{1 + \frac{\rho V}{K}}$$~~

$$V = \frac{aV_0}{1 + \frac{\rho V}{K}}$$

e

$$N = 1000$$



$$n = 30$$

$$\frac{\frac{n}{10}}{\frac{n}{10}} = 3$$



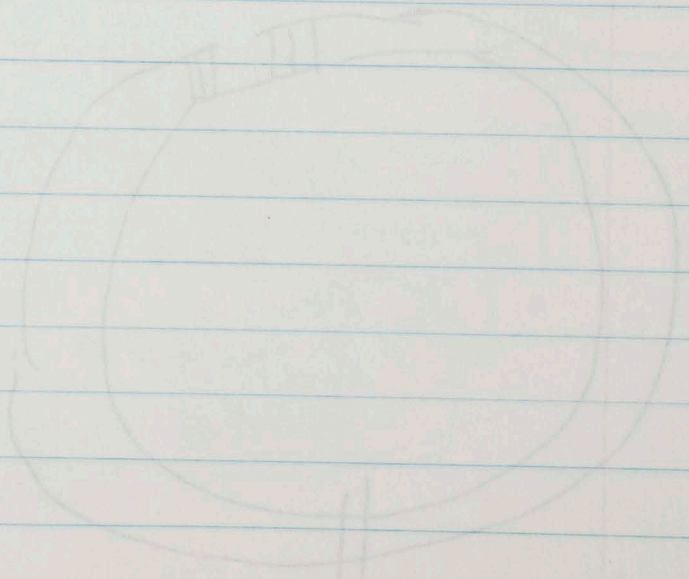
overlap 0 || $\frac{1000}{30}$

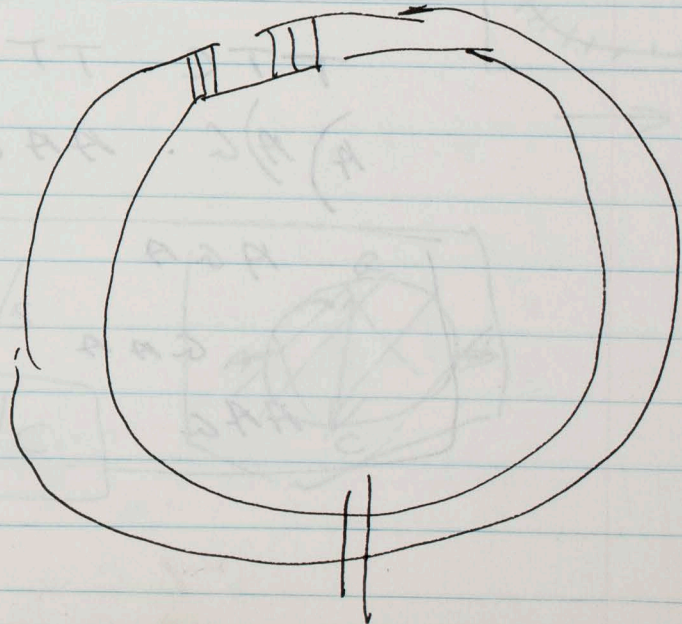
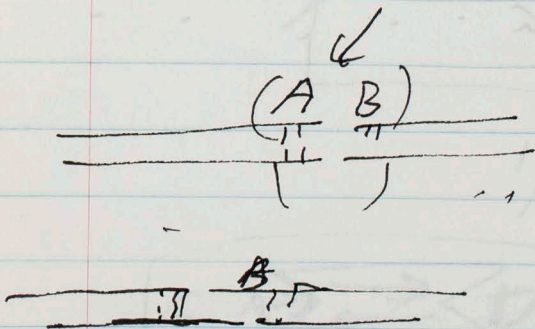
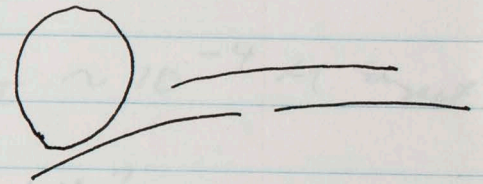
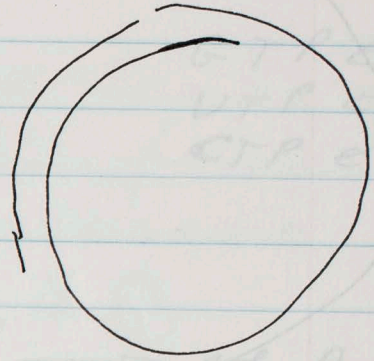
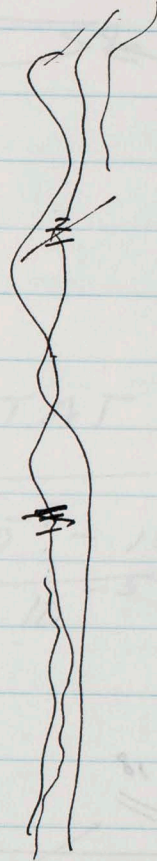
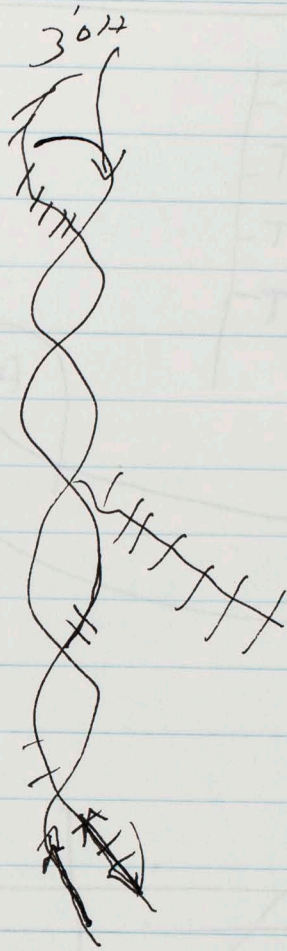
1

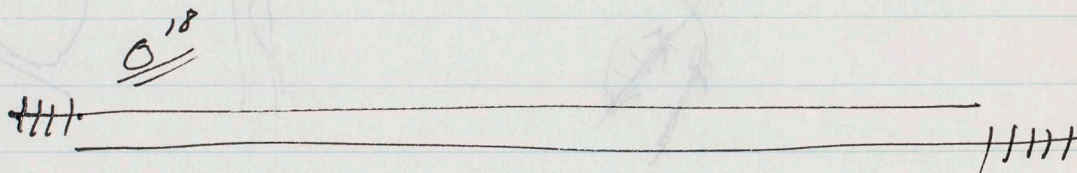
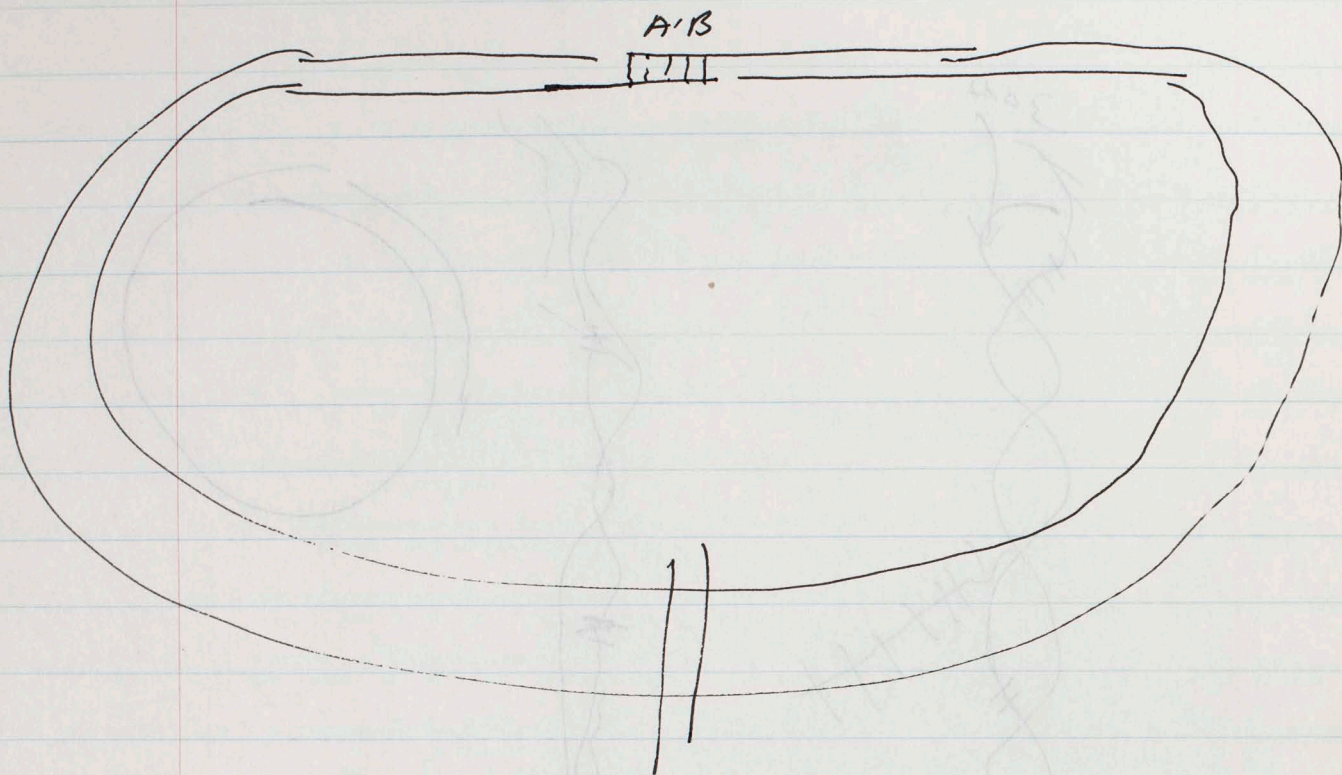
2

3

(A, B)

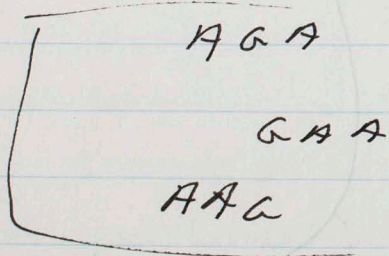


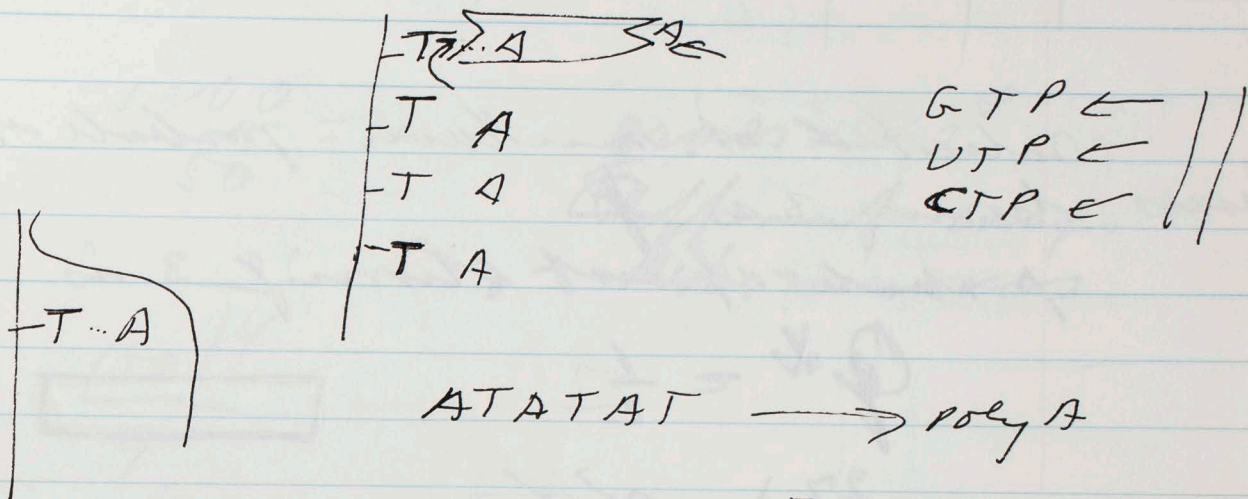
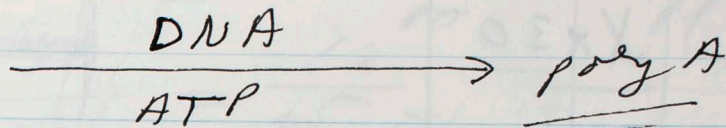




TTC · TTC · TTC · TTC · TTC ·

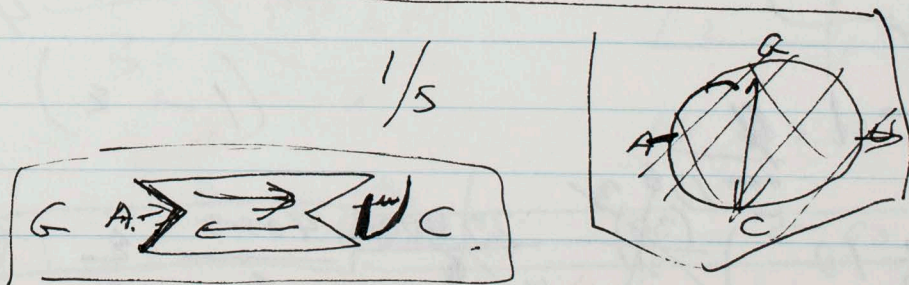
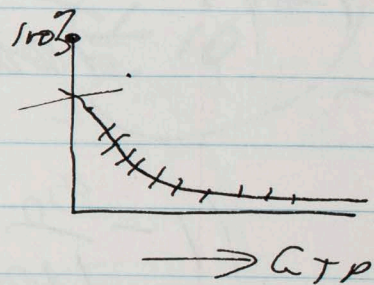
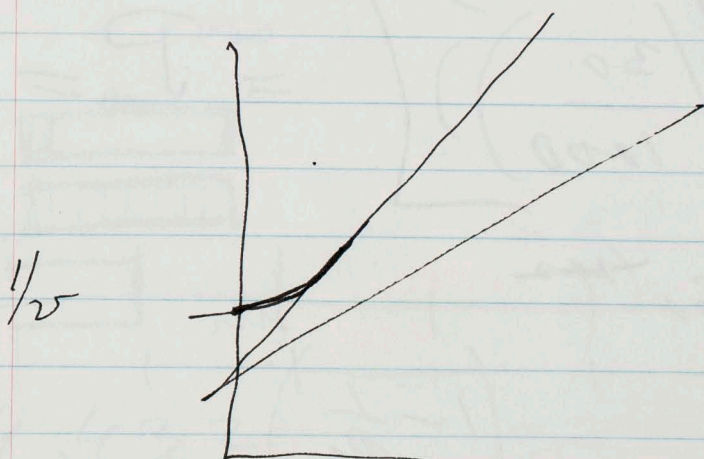
A) A)G · AAG ·

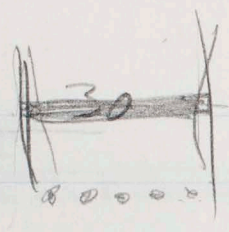
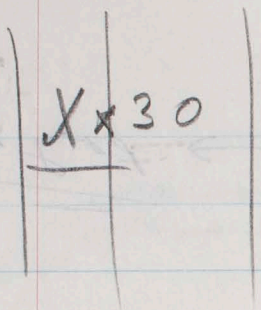




$10^{-9} - 10^{-5}$
 $10^{-5} \text{ M} - 10^{-2}$

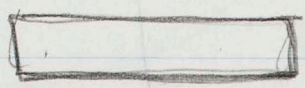
$K_I \sim 10^{-4} \text{ M}$ competitor.



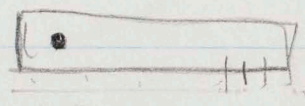


selected at maximum probability at two boxes showing 3 is P
 probability of not showing 3 is q

$$q = \frac{1}{2}$$



$$q = 1 - \left(1 - \frac{30}{1000}\right)^{27}$$



$$1 - \left[1 - \left(1 - \frac{30}{1000}\right)^{27} \right]^3 = P = \frac{4}{3} 10^{-2}$$

$$\left(1 - \frac{30}{1000}\right)^{27}$$

$$\left(1 - \frac{1}{n}\right)^m$$

4000

$$(1 - \epsilon)$$

$$\left(1 - \frac{1}{3} 10^{-5}\right)^{27000} = 1 - \frac{4}{3} 10^{-2}$$

$N = 1000$ $n = 50$
 overlap 5

$$\binom{5}{50} = \frac{(50)^5}{5!} = \frac{10^{10}}{25 \cdot 5!} = \frac{10^{10}}{24 \times 1000}$$

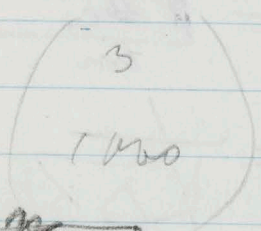
$$\frac{1000}{50} = 20$$

gives = 10^8
 different comp.
 det, neurons

$$\frac{50}{4!}$$

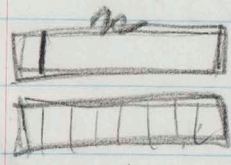
50

maximum number 10 number

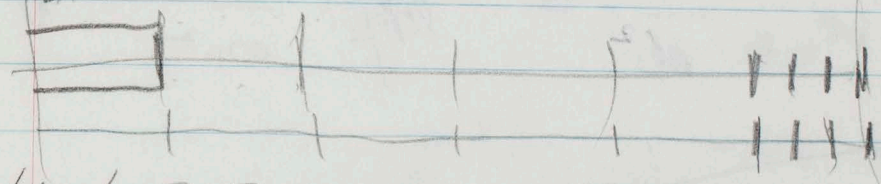


1000³

$$\frac{10^9}{6} \approx 30$$



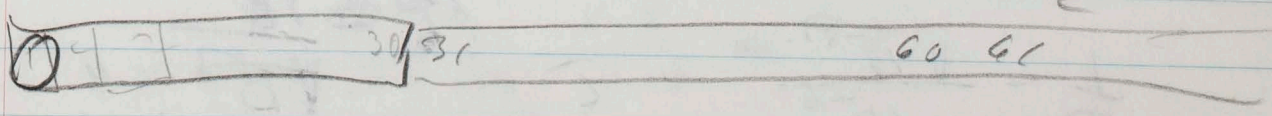
$$\approx \frac{1}{2} 10^{10}$$



$$\frac{4 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 3!} \approx 2 \cdot 2 \cdot 2$$

$$\frac{1}{2} \cdot 26 \cdot 27$$

$$14 \times 2 \cdot 2 = \frac{2 \cdot 2 \times 2 \cdot 2}{2}$$

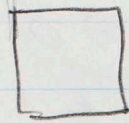


$$\text{gm/sec} = \cancel{\frac{\text{gm}}{\text{cm}^3}} \frac{\text{cm}^2}{\text{cm}}$$

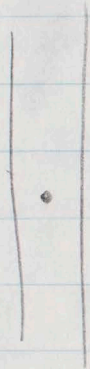
$$[D] = \text{gm}$$

$$\frac{1}{100}$$

$$\frac{\text{gm}}{\text{sec}} = D \frac{\text{gm}}{\text{cm}^3} \frac{\text{cm}^2}{\text{cm}}$$



$$D = \frac{\text{gm}^2}{\text{sec}}$$



$$\sqrt{\frac{\tau}{d}} = \frac{1}{\sqrt{D}}$$

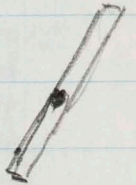
$$= \frac{\sqrt{\text{sec}}}{\text{cm}}$$

$$\sqrt{\frac{\tau}{d^2}} = \frac{1}{\sqrt{D}}$$

$$D \frac{\text{Conc } \tau}{d^2} = \frac{\text{Conc}}{2}$$

$$\tau = \frac{d^2}{D}$$

$$\frac{\tau}{d^2} = \frac{\cancel{\text{gm}}}{\cancel{\text{sec}}} \frac{\text{sec}}{\text{cm}^2}$$



~~$$\sqrt{\frac{\tau}{d^2}} = \frac{1}{\sqrt{D}}$$~~

$$D = 10^{-5} = \frac{1}{10^5}$$

$$d = 10^{-3} \text{ cm}$$

$$\tau = \frac{10^{-6}}{10^{-5}} = 10^{-1} = 0.1 \text{ sec}$$

$$\frac{1}{\tau} = \frac{\sqrt{10^{-5}}}{10^{-6}}$$

1 cm long,

$$\tau = 3 \times 10 \text{ sec}$$

$$Q^x = \frac{4}{3} \text{ Binomial}$$

$$Q = 1 - \frac{4}{3} 10^{-2} \quad Q = 1 - \epsilon$$

$$\epsilon = \frac{4}{3} 10^{-2}$$

$$Q^x = e^{-x\epsilon} = \frac{4}{3} \text{ Binomial}$$

$$x\epsilon \approx 1$$

75

$$P = \binom{30}{1000} = \frac{1000^{30}}{30!}$$

$$30! = e^{-30} (30)^{30} \sqrt{2\pi 30}$$

$$P = \frac{(30)^{30}}{e^{-30} \sqrt{2\pi 30}} \approx 10^{30} = 30^{30}$$

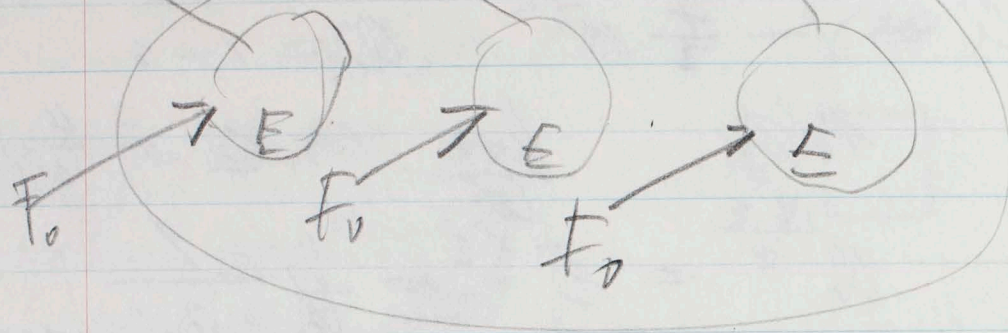
$$e^{-x\epsilon} = 10^{-30}$$

$$10^{-\frac{x\epsilon}{2.13}}$$

$$x = \frac{2.13 \times 30 \times 100}{\frac{x\epsilon}{2.13}} = 30$$

$\frac{4}{3}$

Effect

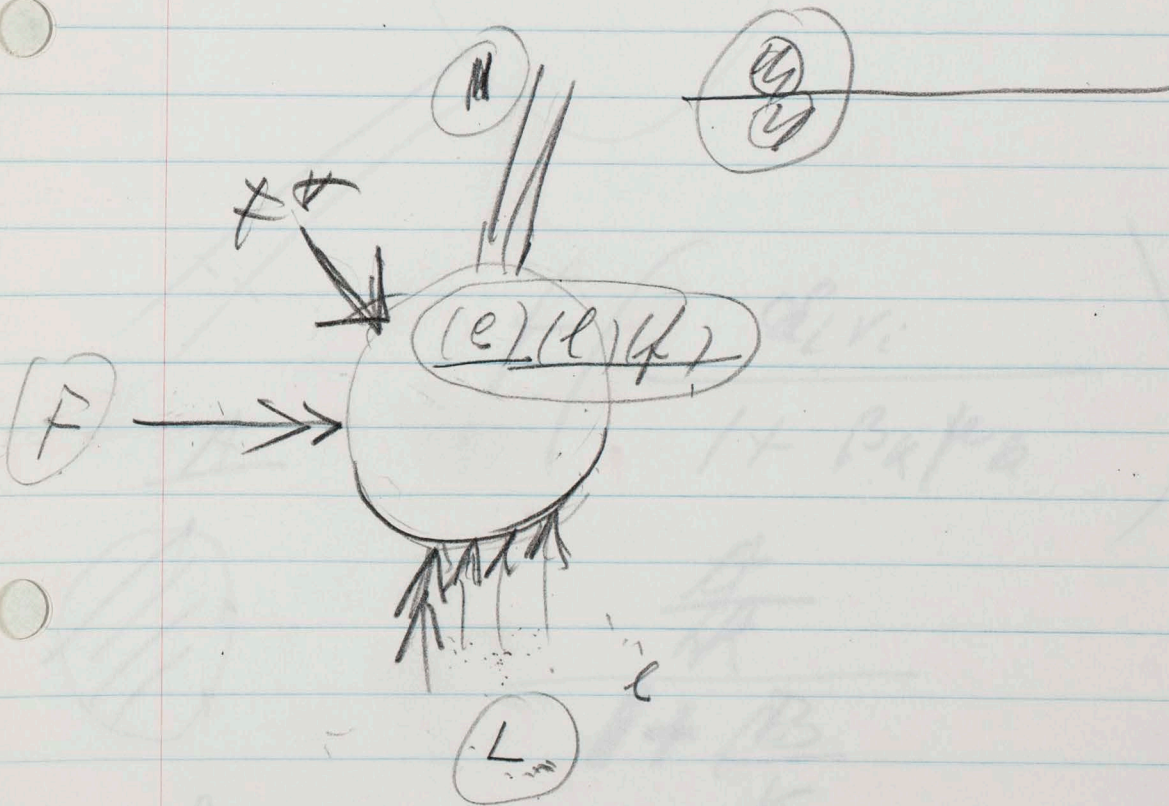
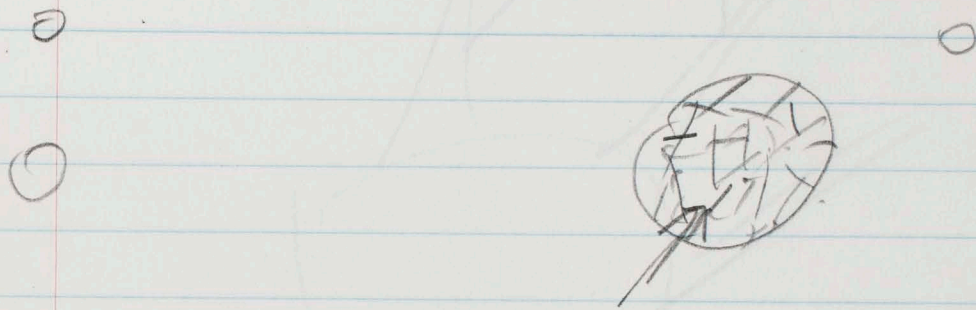
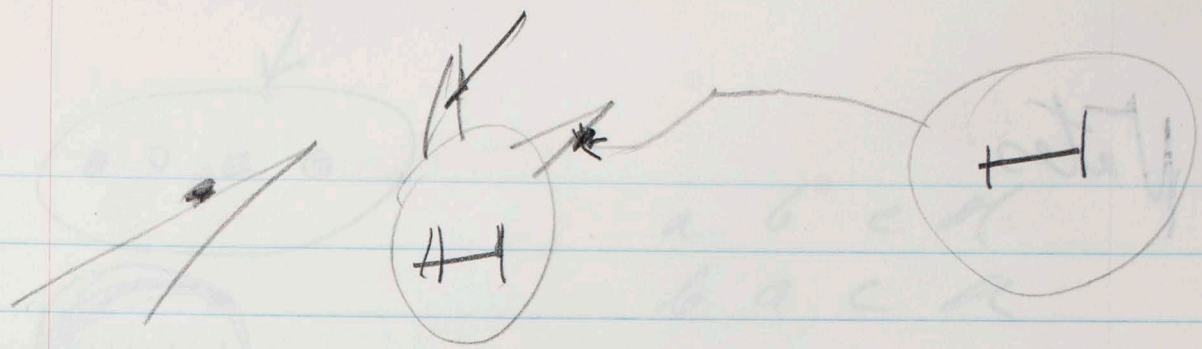


F_0

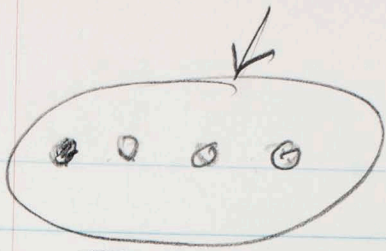
10 trials

Sum

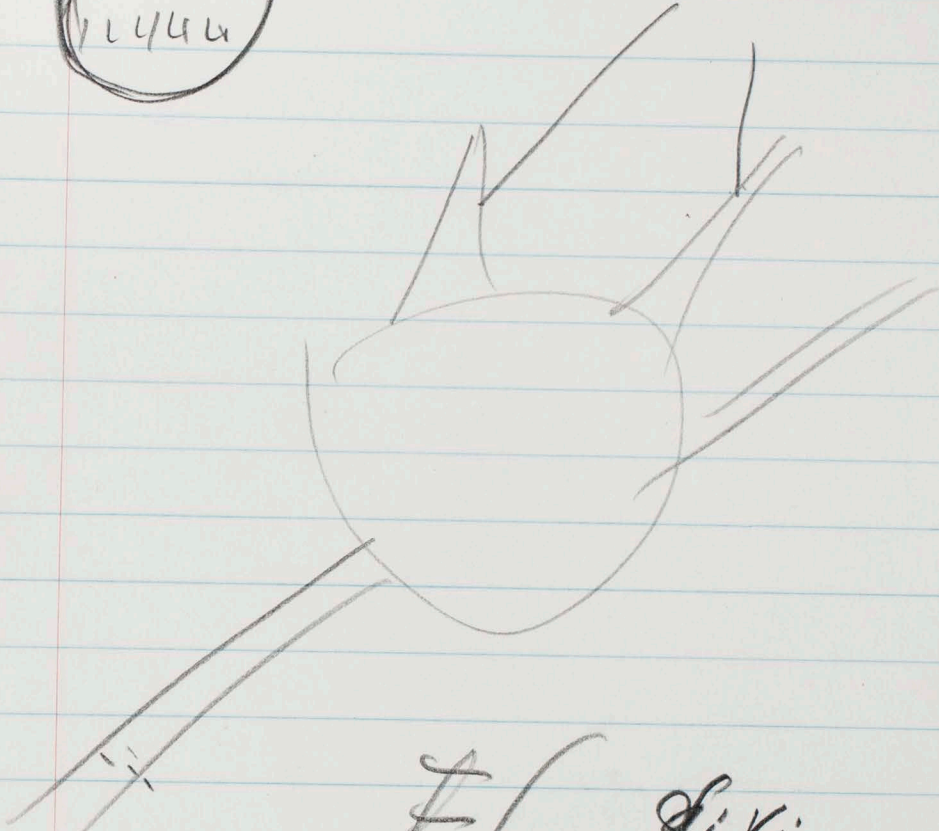
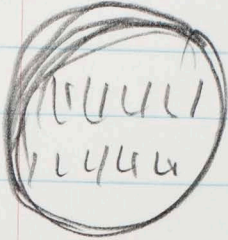
$\frac{1}{2}$



Notes

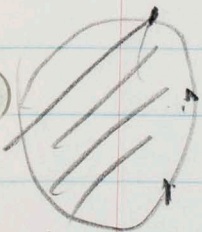


a b c d
b a c a



A

$$F \left(\frac{d_i v_i}{1 + B_k \mu_k} \right)$$

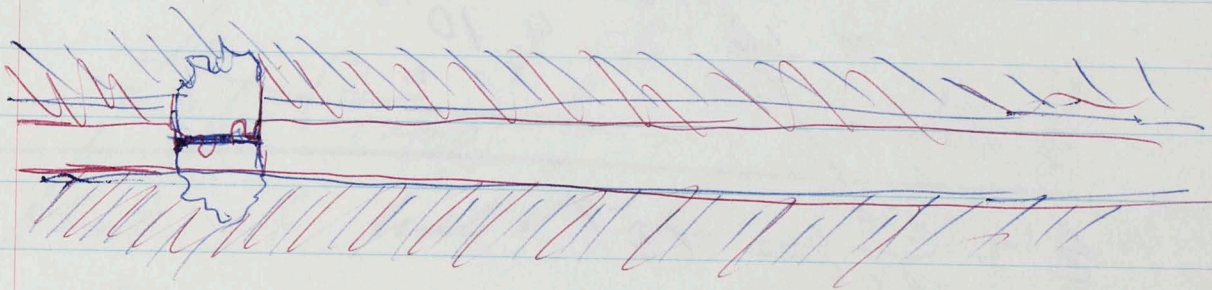
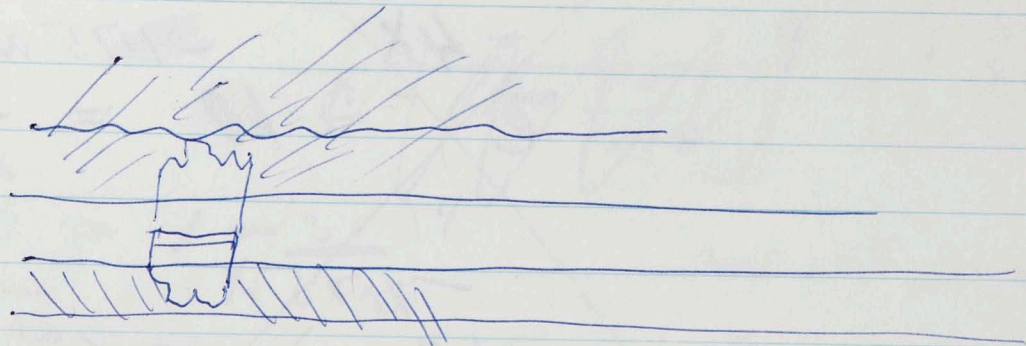


B

$$\frac{\frac{A}{K}}{1 + \frac{B}{K}}$$

Predicate....

...the part of a sentence or clause that expresses what is said of the subject and that usually consists of a verb with or without objects, complements or adverbial modifiers



$$\zeta = \frac{\rho_1}{10^6} = 0.8 \times 10^{-4} \frac{30^4}{24} X$$

$$= 4 \cdot 10^{-6} (30)^4 = 4 \times 81 \times 10^{-2} X$$

$$e = 10^{-4X} = \frac{1}{B}$$

$$B = \frac{10^{-12}}{24} = 4 \cdot 10^{10}$$

$$\zeta = \frac{\rho_1}{10^6} = 10^{-4}$$

$$b = \frac{(30)^4}{24} = \frac{80 \cdot 10^4}{24} = \frac{4 \times 80 \cdot 10^2}{24}$$

$$\zeta = 10^{-12} \quad ; \quad b = \frac{[30]^4}{24} = \frac{4 \times 80 \times 10^2}{24}$$

$$\zeta b = 4 \cdot 10^{-8}$$

$$e = 10^{-8} = \frac{4 \cdot 10^{-8}}{2 \cdot 10^0} X$$

p = Probability that ~~at~~ 4 ^{selected at random} out of ~~30~~ ^{not} ~~selected at random, are~~ ~~all~~ ^{present} in another random set of 30

$$b = \frac{1 - \left(\frac{30}{1000}\right)^4}{1 - \left(\frac{1}{1000}\right)^4} \quad \boxed{\binom{4}{30} = 6}$$

$$p = 1 - \left(\frac{30}{1000}\right)^4 \quad \text{not all present}$$

\Rightarrow that this is true for $\binom{4}{30}$ choices

$$= \left\{ 1 - \left(\frac{30}{1000}\right)^4 \right\}^6 \quad 1 - \left(\frac{1}{1000}\right)^4$$

that it hold for X sets of 30

$$p^X = \frac{1}{B} \quad \left\{ 1 - \left(\frac{30}{1000}\right)^4 \right\}^{6X} = \frac{1}{B}$$

$$\boxed{B = \left\{ \frac{30}{1000} \right\}^6}$$

$$\left\{ 1 - \epsilon \right\}^{6X} = \frac{1}{B}$$

$$e^{-\epsilon 6X} = \frac{1}{B}$$

0 overlap case $(N < 10^4)$

$\left(1 - \frac{3}{1000}\right)^{30}$ is probab of not
winning with

$$\left(1 - \frac{3}{1000}\right)^{30} \approx$$

$$e^{-\frac{3 \times 30}{1000}} = 10^{-\frac{3 \times 30}{23}} = \frac{1}{10^{4 \times 30}} = \frac{1}{10^{120}}$$

$$B = \frac{10^{120}}{10^{50}} = 10^{70}$$

B

$$= \frac{10^{120}}{10^{50}} = 10^{70}$$

$$X = \underline{\$70}$$

~~40000~~

$$\frac{X}{10} = \frac{70}{10} = 7$$

$$X \approx 23 \times 70 = \underline{1610}$$

is head of

300

from mean

$$23 \times 1600 = 23000$$

15 x 10

200

150

de Capro

$$e^{-\epsilon b x} = \frac{1}{B}$$

$$\epsilon = \left(\frac{30}{100}\right)^4 = \frac{81}{10^6} \approx 80 \cdot 10^{-6}$$

$$b = \frac{30^4}{24} = \frac{81}{24} \cdot 10^4 = 4 \cdot 10^3$$

$$\frac{\epsilon b}{2.3} = \frac{80 \cdot 10^{-6} \cdot 4 \cdot 10^3}{2.3} = 64 \cdot \frac{4}{2.3} \cdot 10^{-2} = 110 \cdot 10^{-2} \approx 1$$

$$10^{-x} = \frac{1}{B} \quad x = 5.7$$

$$\frac{(1000)^{30}}{30!} = \frac{10^{90}}{10^{33}} \approx 10^{57}$$

$$30! = e^{-30} \frac{30^{30}}{10^{-13} \cdot 10^{45} \cdot 14} \approx 10^{46-13}$$

$$30! = e^{-30} \frac{30^{30}}{3 \cdot 10^{30} \cdot 14}$$

$$30! = e^{-30} \frac{30^{30}}{3 \cdot 10^{30} \cdot 14}$$

$$10^{\frac{30}{2.3}} \times 27^{10} \times 10^{30} \times 14$$

$$10^{\frac{30}{2.3}} \times 27^{10} \times 10^{30} \times 14$$

$$10^{\frac{30}{2.3}} \times 10^{\frac{30}{2.3}} (2.7)^{10} \cdot 10^{10} \cdot 10^{30} \cdot 14 = 10^{50}$$

log

$$10^{\frac{26}{7.3}}$$

$$N = 10^4$$

$$n = 30$$

$$k = 4$$

$$C = \binom{4}{30} = \frac{30^4}{4!} = \frac{81 \times 10^4}{24}$$

$$e^{-2.6x} = \frac{1}{B}$$

$$e = \left(\frac{30}{10^3} \right)^4 = \frac{81}{10^{12}} = 10^{-10}$$

$$30^4 \approx 10^{50}$$

$$B = \binom{30}{11110} = 10^{70}$$

$$\frac{10^{-10} \cdot 3 \cdot 10^4}{2.3} = 10^{-70}$$

$$10^{-6} \cdot x = 70$$

$$x = 70 \cdot 10^6$$

$$x = 10^6$$

~~Area of We shall estimate two~~
~~neurons is~~ The chance spec. of two
 neurons as
 essentially different if
 overlap number ~~10¹⁸~~ or less
 of say $n=50$. i.e. ~~6~~ less than

$$\frac{\epsilon \cdot 6 \times}{e}$$

$$\epsilon = \left(\frac{5}{10^3} \right)^{\underline{\underline{6}}} = \frac{1.5 \cdot 10^4}{10^{18}}$$

$$b = \binom{6}{50} \approx \frac{(50)^6}{6!} = \frac{(125)^2 \cdot 10^6}{24 \times 30}$$

$$10 \cdot \frac{\epsilon \cdot 6 \times}{2.3}$$

$$B = \binom{50}{104}$$

lower limit

$$\frac{\epsilon \cdot 6 \times}{2.3} = 1.$$

$$b = \frac{1.5 \cdot 10^4 \cdot 10^6}{7.5 \cdot 100}$$

$$b = 2 \cdot 10^7$$

$$\epsilon = 1.5 \cdot 10^{-14}$$

$$\epsilon \cdot b = 3 \cdot 10^{-7}$$

$$\epsilon \cdot b \approx 10^{-7}$$

$$\epsilon \cdot b = \left(\frac{50}{104} \right)^6 \cdot \frac{(50)^6}{6!}$$

$$\left(30 \sqrt{30} \right) \cdot 10^6$$

$$\left(2500 \right)^5 = 100 \times 10^6$$

Experiment

W

1.) Introduction

1.1.) Establish ~~response to light~~
then response to light + sound

(1.2.) Test with light alone in the trial,
strength

a) Test with sound alone
strength

2.) Establish response to
light alone then add ~~of~~ sound
of times (with reinforcement)
then test with sound
alone strength

overlap number

or

overlap number

a_i

b_i

whichever is smaller

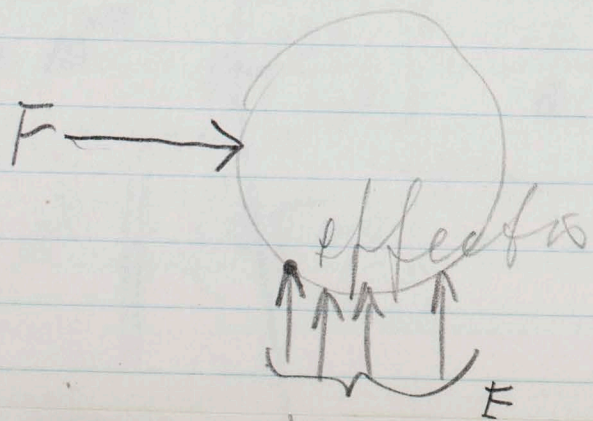
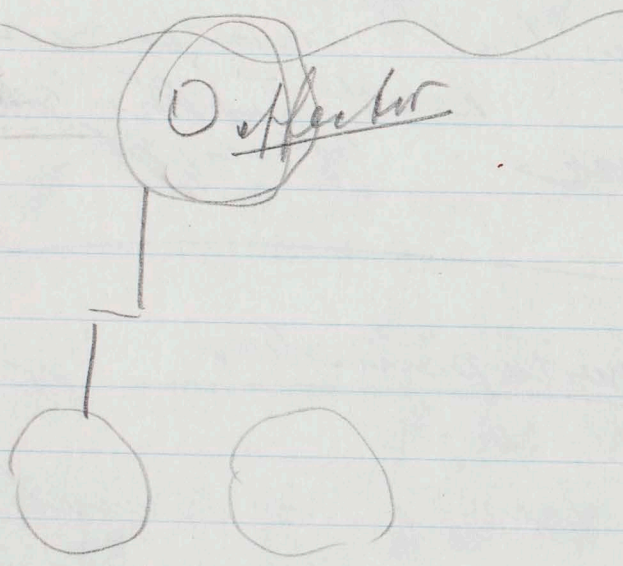
$$50! = e^{-50} (50)^{50} \sqrt{2\pi \cdot 50}$$

$$\frac{100}{2.50} = 10^{84}$$

$$50! \approx 10^{63}$$

$$B = \frac{10^9 \times 50}{10^{63}} = 10^{137}$$

$$\Sigma B \times = 10^{-137}$$



$(1 - \frac{1}{B})$ $(\frac{1}{B})$ H
 $(1 - \frac{1}{B})^B = (\frac{1}{e})$ $(0, K_0)$

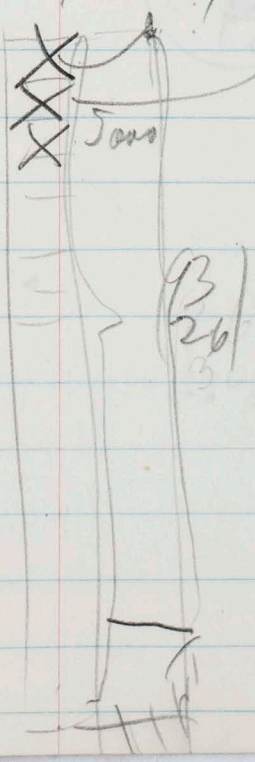
dense $\frac{x}{2}$ probability that none of them
 hit $\sqrt{\frac{1}{e}}$

50!

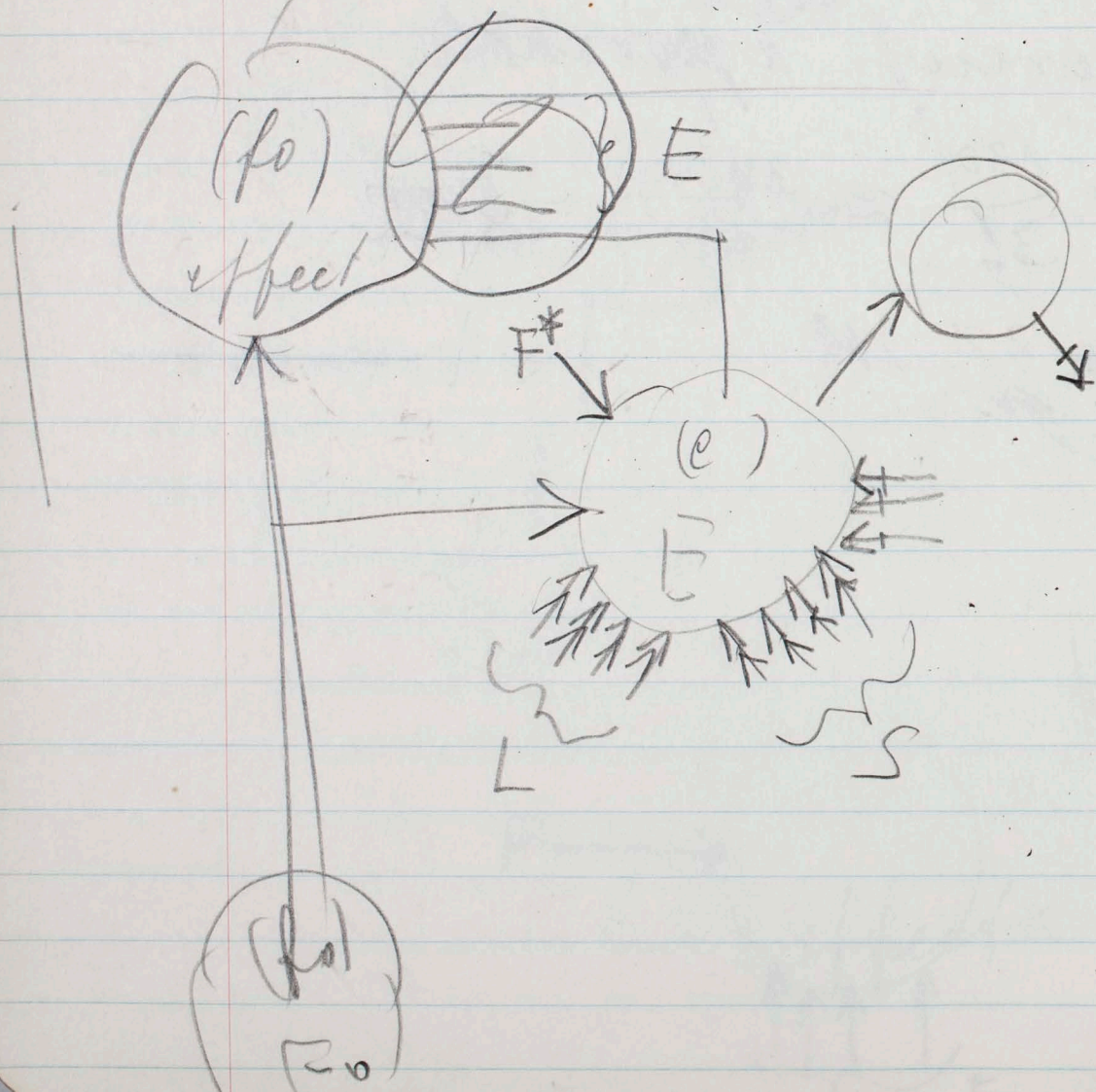
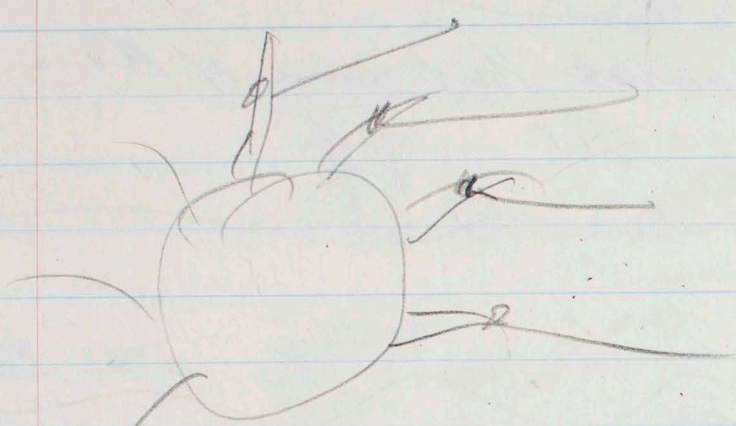
different approach

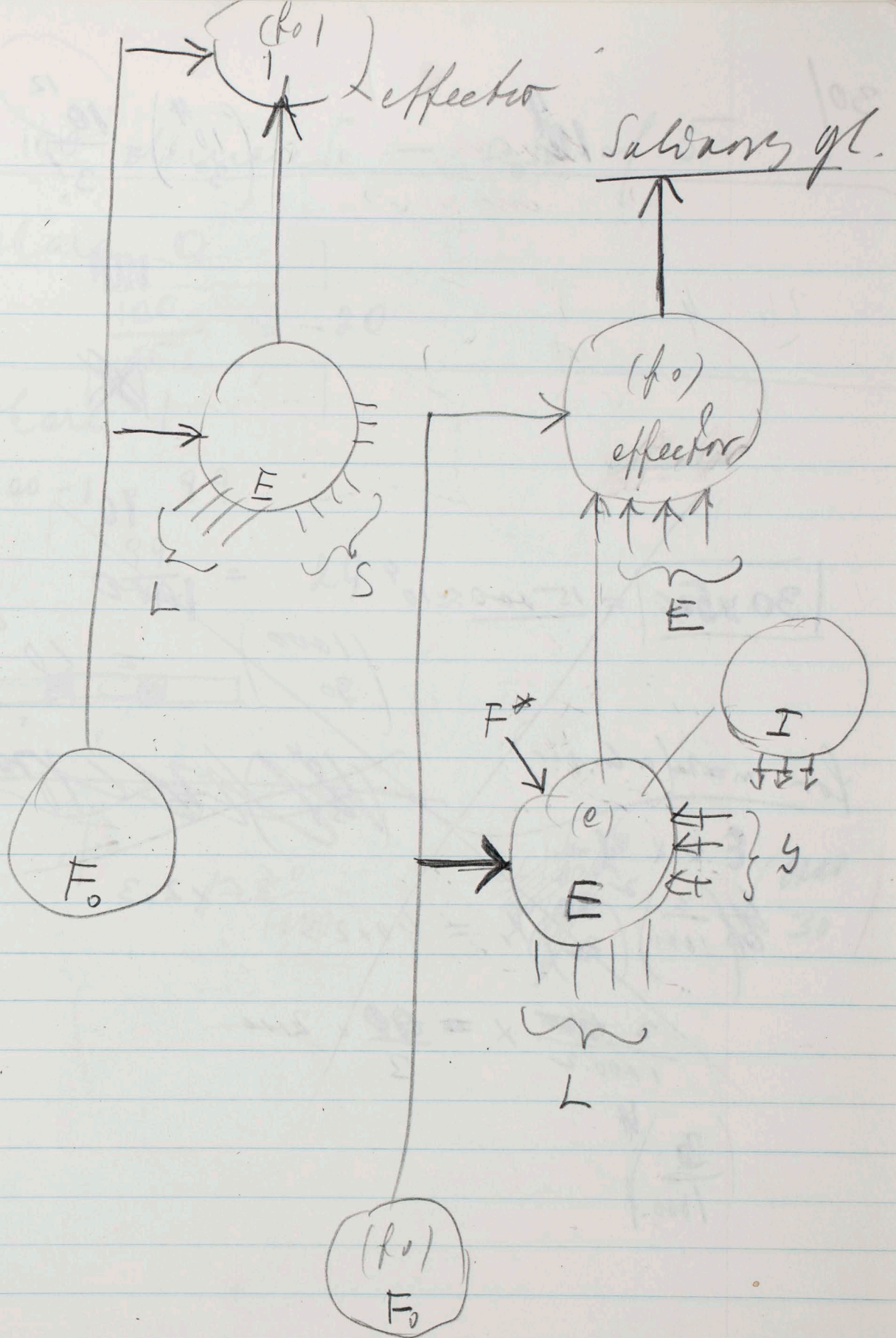
$$\binom{3}{30} = \frac{(30)^3}{3!} \approx \frac{30 \text{ evs}}{6} = \underline{5000}$$

30, 26, 22, 18, ... | -----



developmentally det.
nurseries.



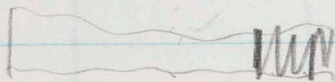


30/

10^4

$$\binom{10^4}{3} = \frac{10^{12}}{3!}$$

26 4



$$30 \times 500 = 15,000 \approx 10^4$$

$$\frac{1000}{30} = 10^{40}$$

(1)

for $m=2$ (or larger)

$\epsilon \times$

$$\frac{3}{1000} \times \frac{30}{30} \times = 40 \times 2.3$$

$$35 \times 2.3$$

$$\frac{3 \times 1000}{1000.2} \times = \frac{30}{3} \times 2,100$$

$$\frac{3}{1000.2}$$

100 elements - sets of 5

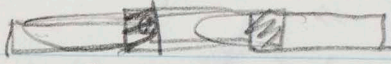
a) share 0

$$\frac{100}{5} = 20$$

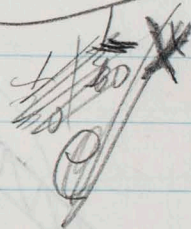
b) share 1

$$100 - 1 = 99$$

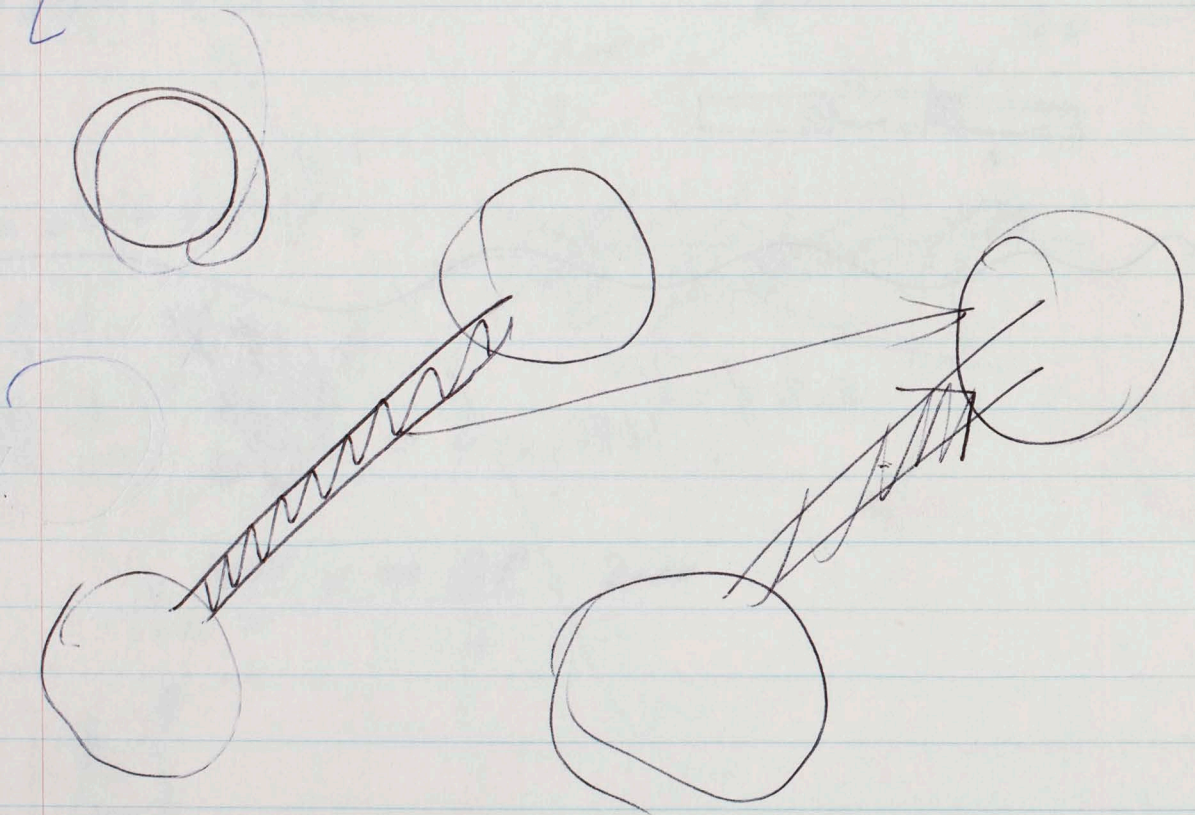
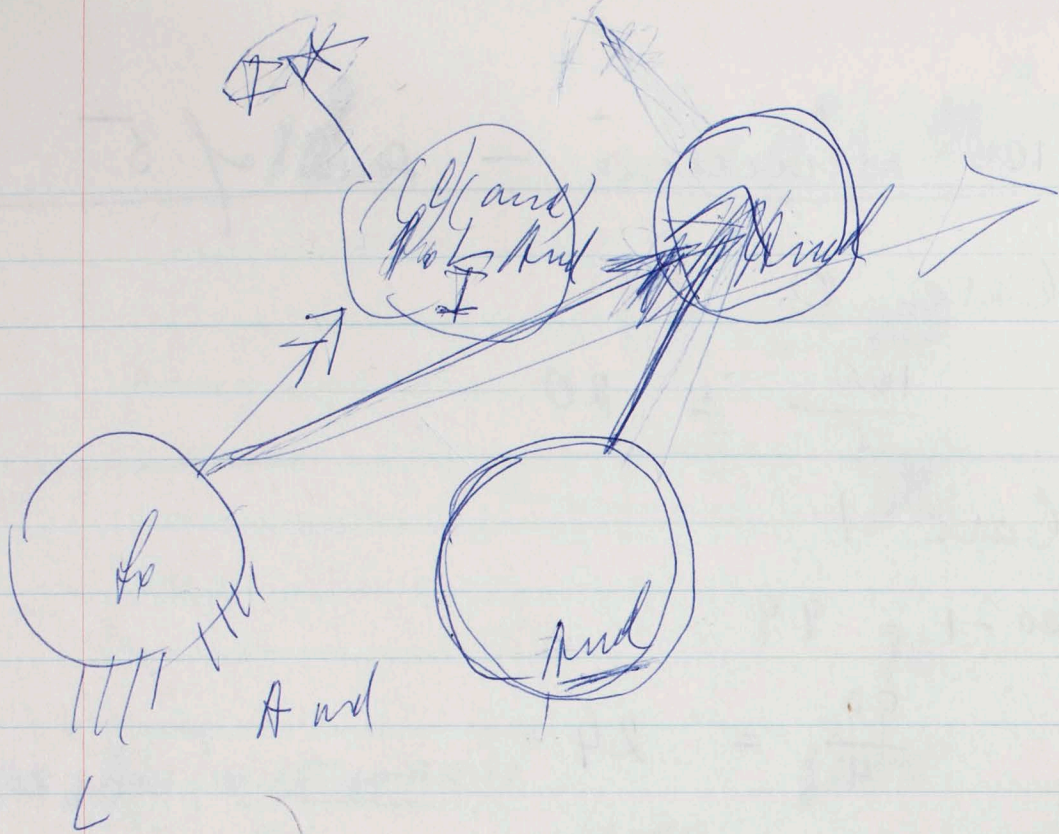
$$\frac{99}{4} = 24.75$$



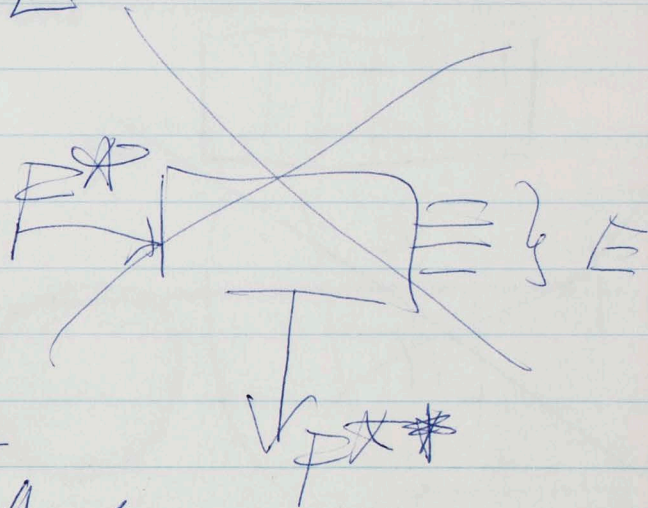
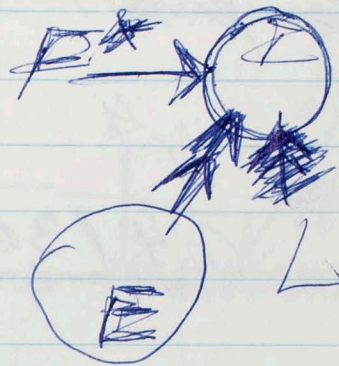
$$\frac{30}{1000}$$



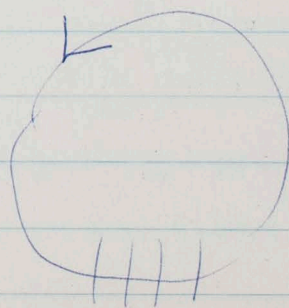
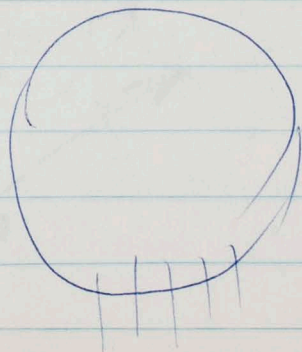
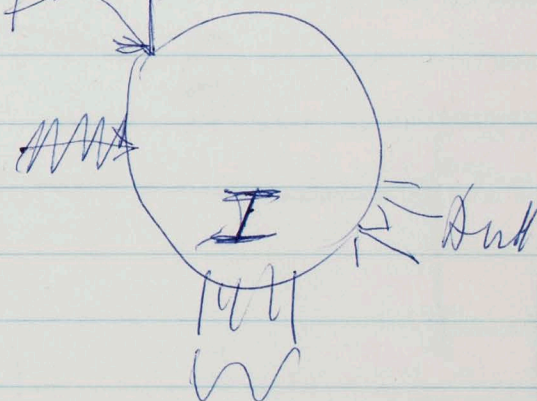
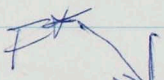
30



H



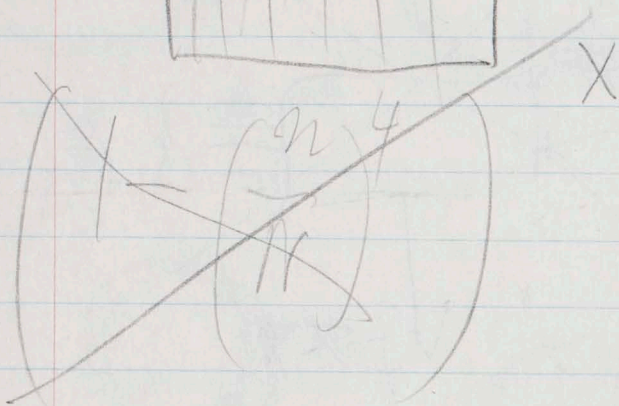
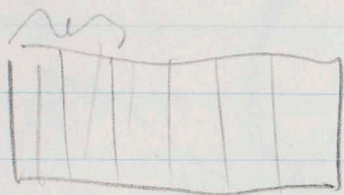
And



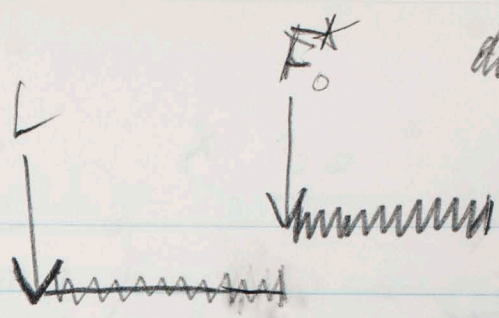
$$\rightarrow \binom{n}{N}^4 \binom{30}{4} x \approx \mu B$$

$$x \equiv \frac{N^4}{n^4 \binom{30}{4}}$$

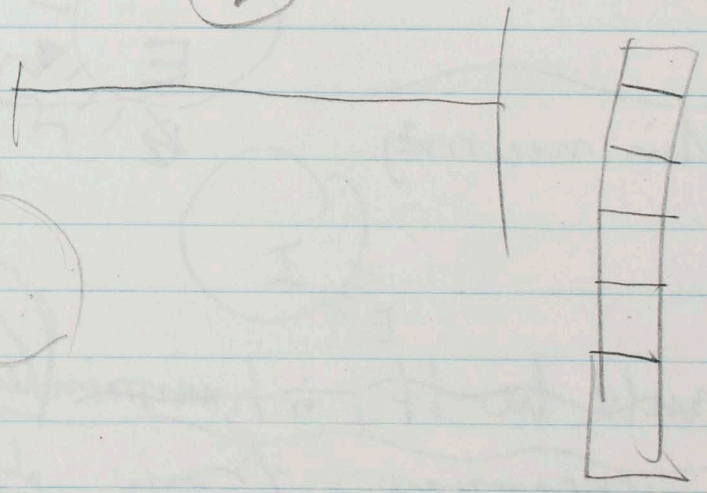
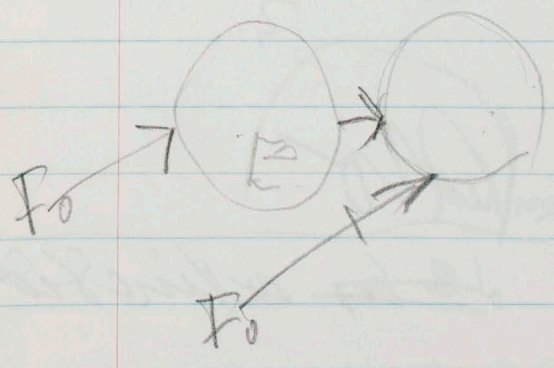
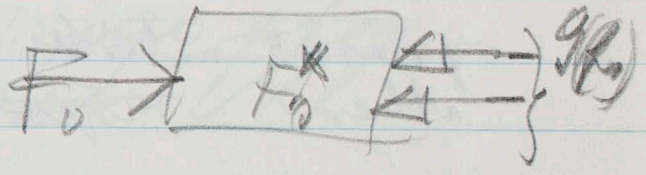
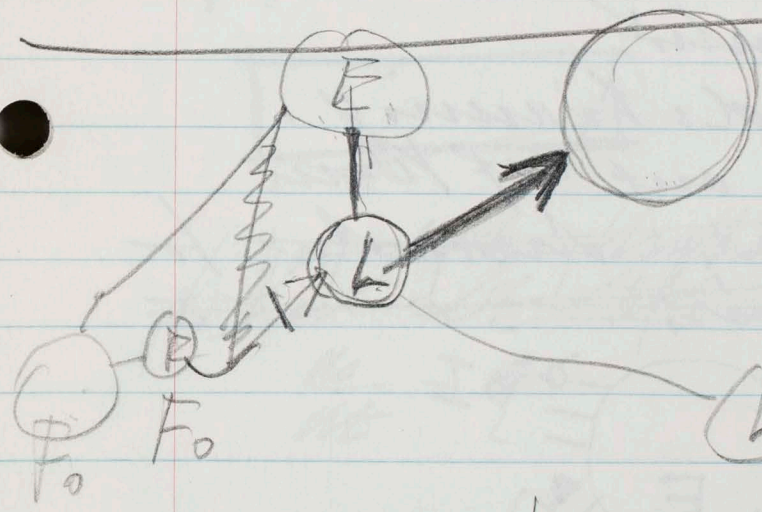
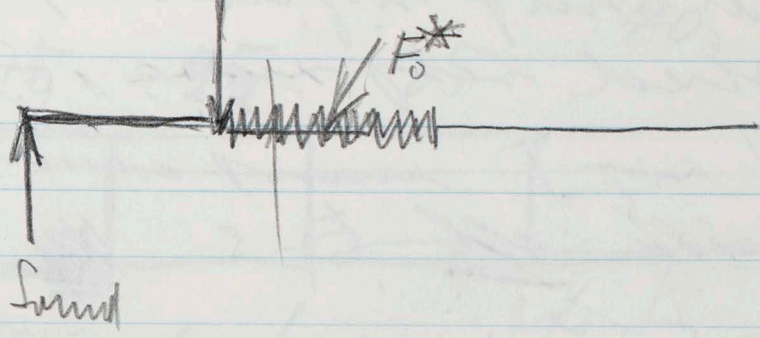
e



during condensation



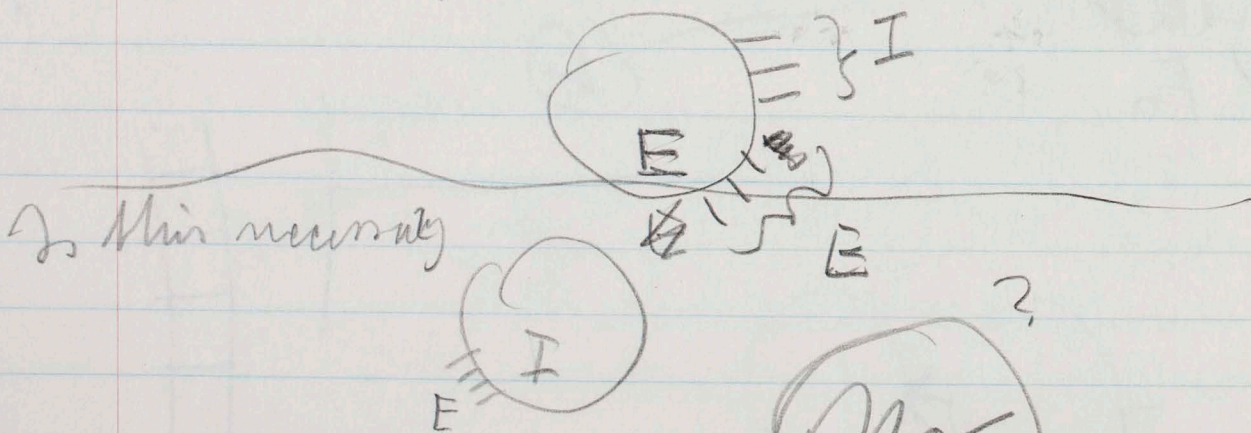
after condensation



Notes

Substitution of a rod cannot
response by using signal of
either predicted response. —
shows that ~~if~~ I must commu-
nicate with all E-s ~~the~~

Equivalency of motor
2 signal conditions,
isolation to one of them
starting in arbitrary character to
attend responses;

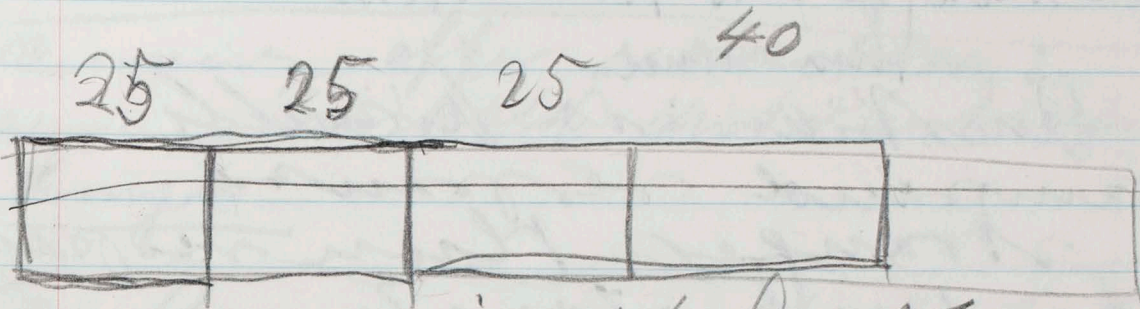


could be if I is transmitted to
recovery from ~~the~~ extinction

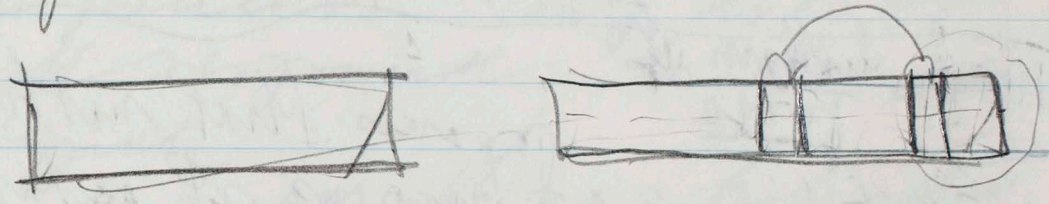
$$1 - \frac{30}{1000}$$

$$\times \frac{30}{100}$$

$$ln = \frac{30}{100} \times 30$$



upper limit for card



~~When set of 30-27~~

$$\frac{Ns}{Nt} = AS$$

but if compound skin is reinforced more and more neurons E are transcribed a minority of which has more fibers than that from normal

Question: is actually compound response stronger than response to input alone?

143: bottom of page

proves that nothing happens if established comp. response is exercised.

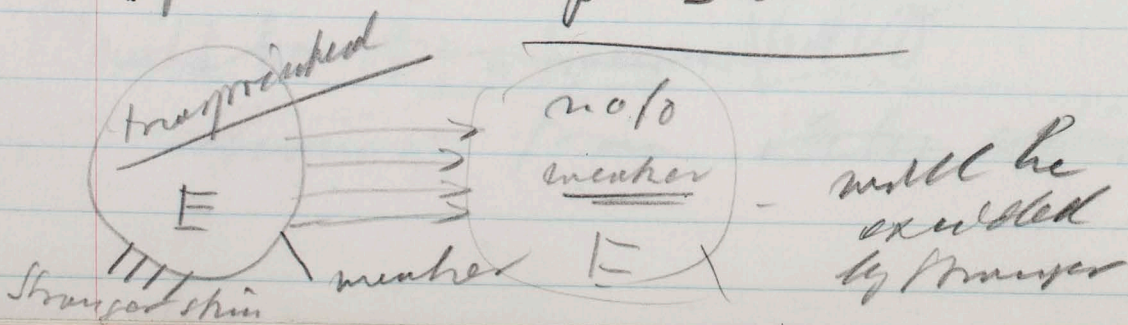
Prediction: extinguishing one will not now extinguish present compound

144 bottom

important to think through

Important

p. 56



Permanent extinction: ^W

A few stray neurons \rightarrow send fibers to ~~TA~~ but not to Effector

Recovery after extinction:
Assume threshold distribution changes

Double response, but not with
improvements. Why does it
still respond to double
signal

Answer: threshold
distribution,

practice

p. 143 improvement say

and it visual

and it much stronger response
alone

now: reduplication camped,

some existing with visual

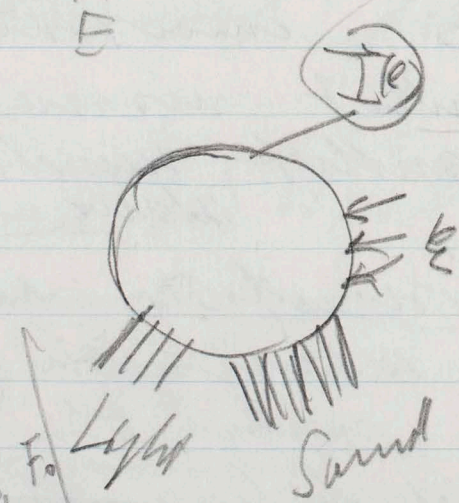
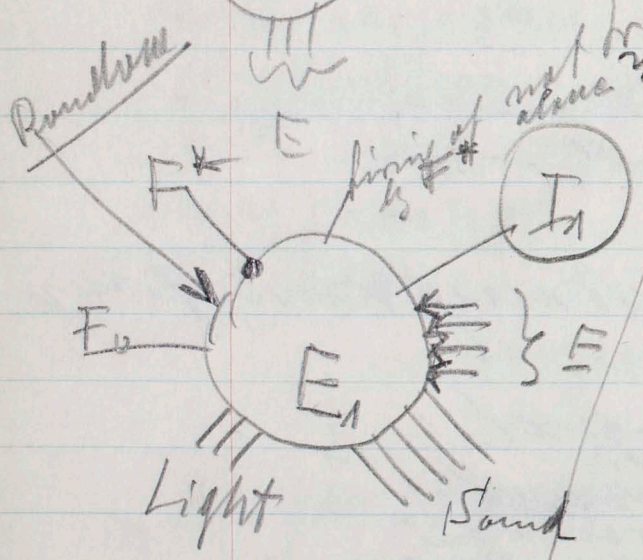
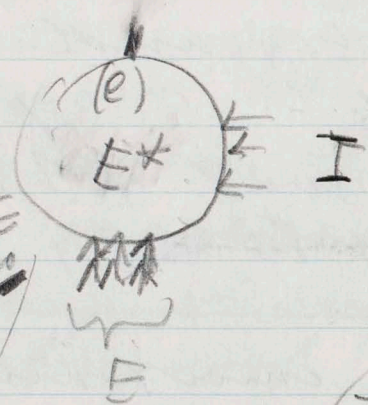
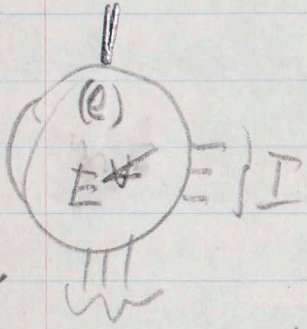
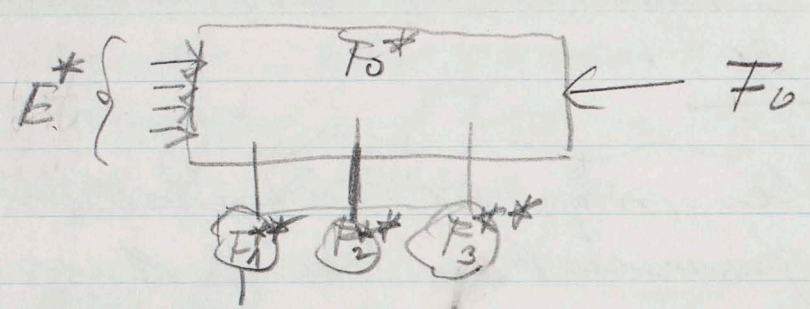
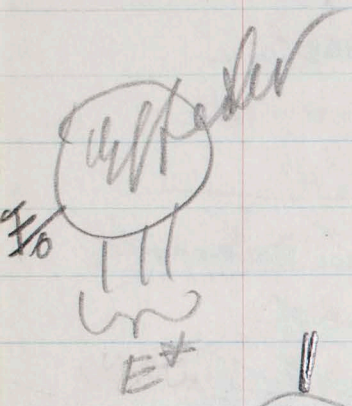
some neurons \rightarrow ^{receive} more

signal fibers than ~~and they~~

which have ~~will~~ build up

until neurons \rightarrow no longer

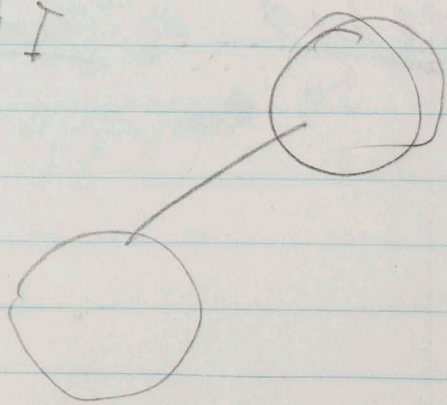
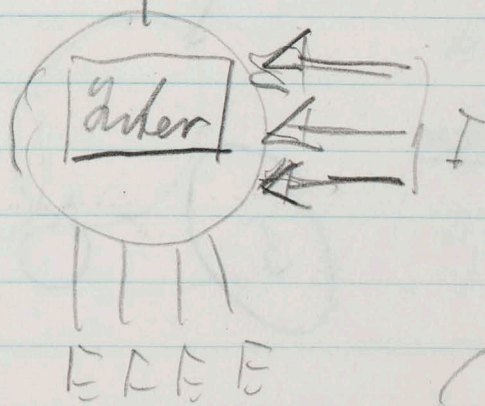
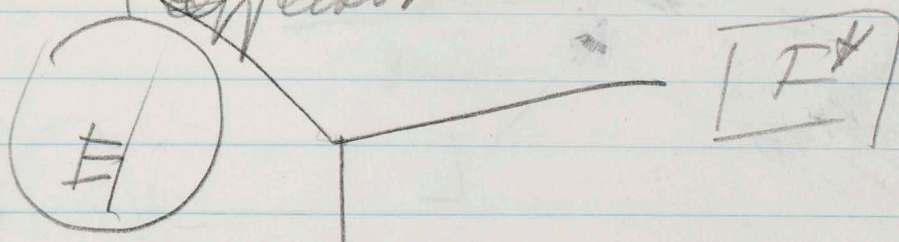
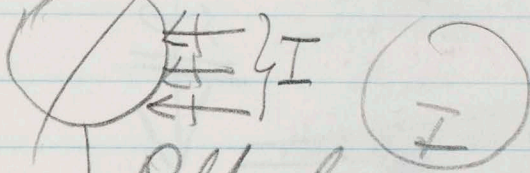
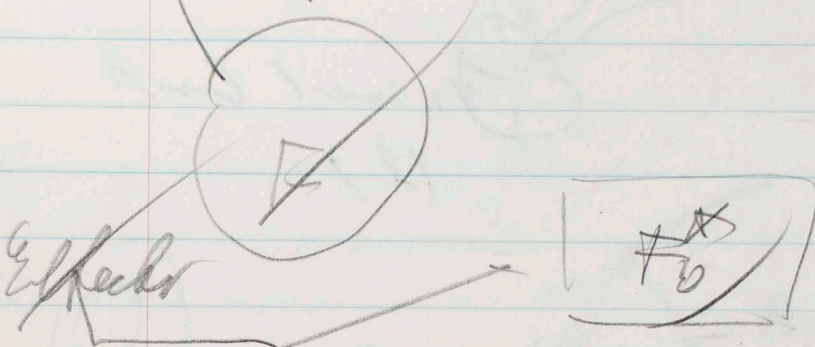
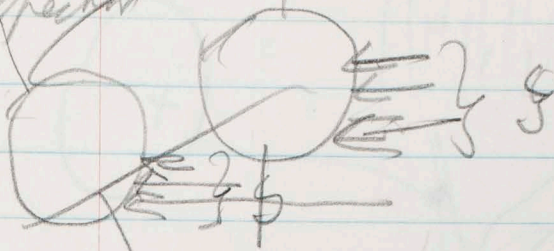
fire under ^{which have} ~~influence~~ of ~~same~~

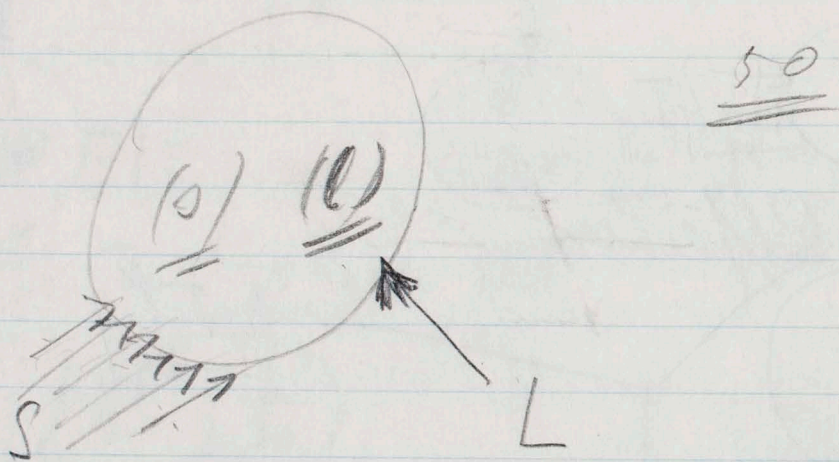
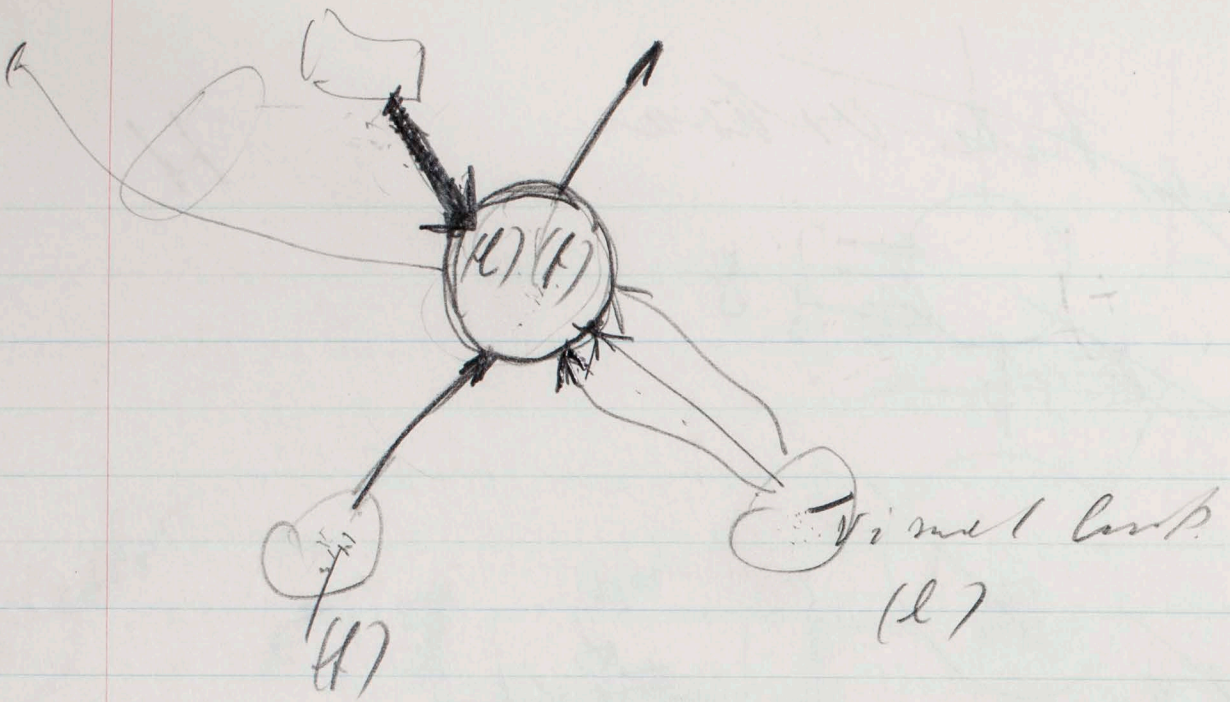


otherwise F_0 above would be needed

~~Interobserver~~
Effectors

H





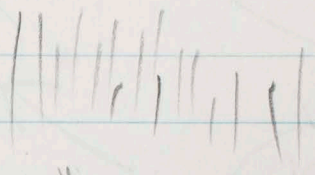
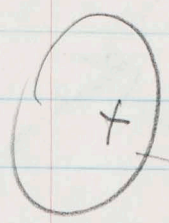
$$\frac{10 \text{ days}}{50} = \frac{200}{}$$

(5)

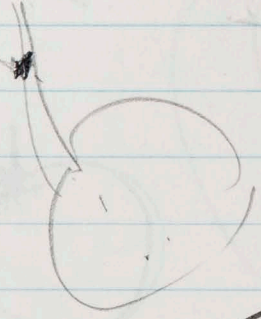
(L)

$$N = 10^4$$

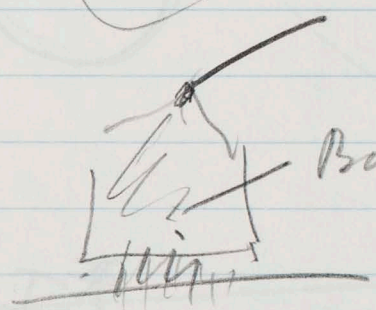
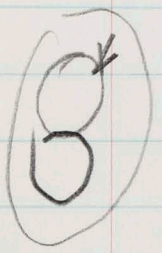
50



50

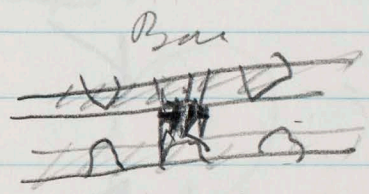
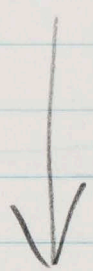


✓



Bamboo

transient I
substance

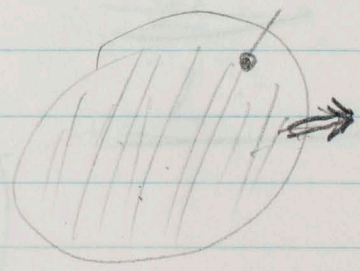
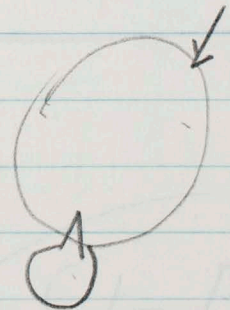
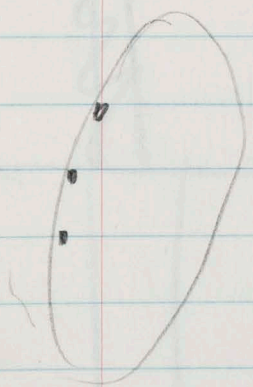


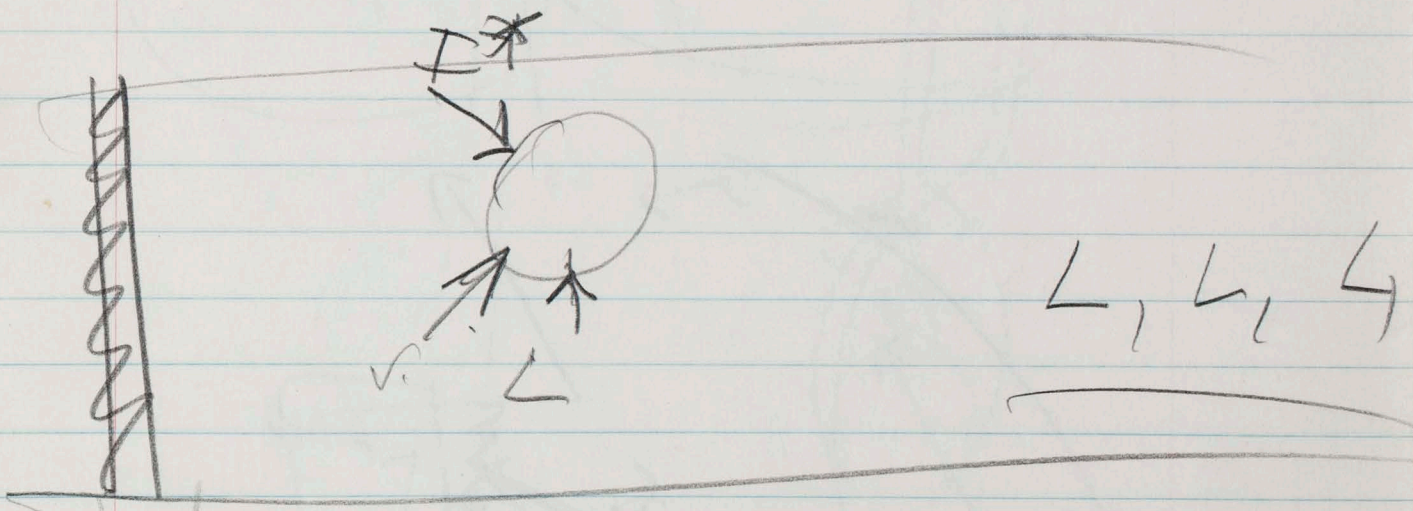
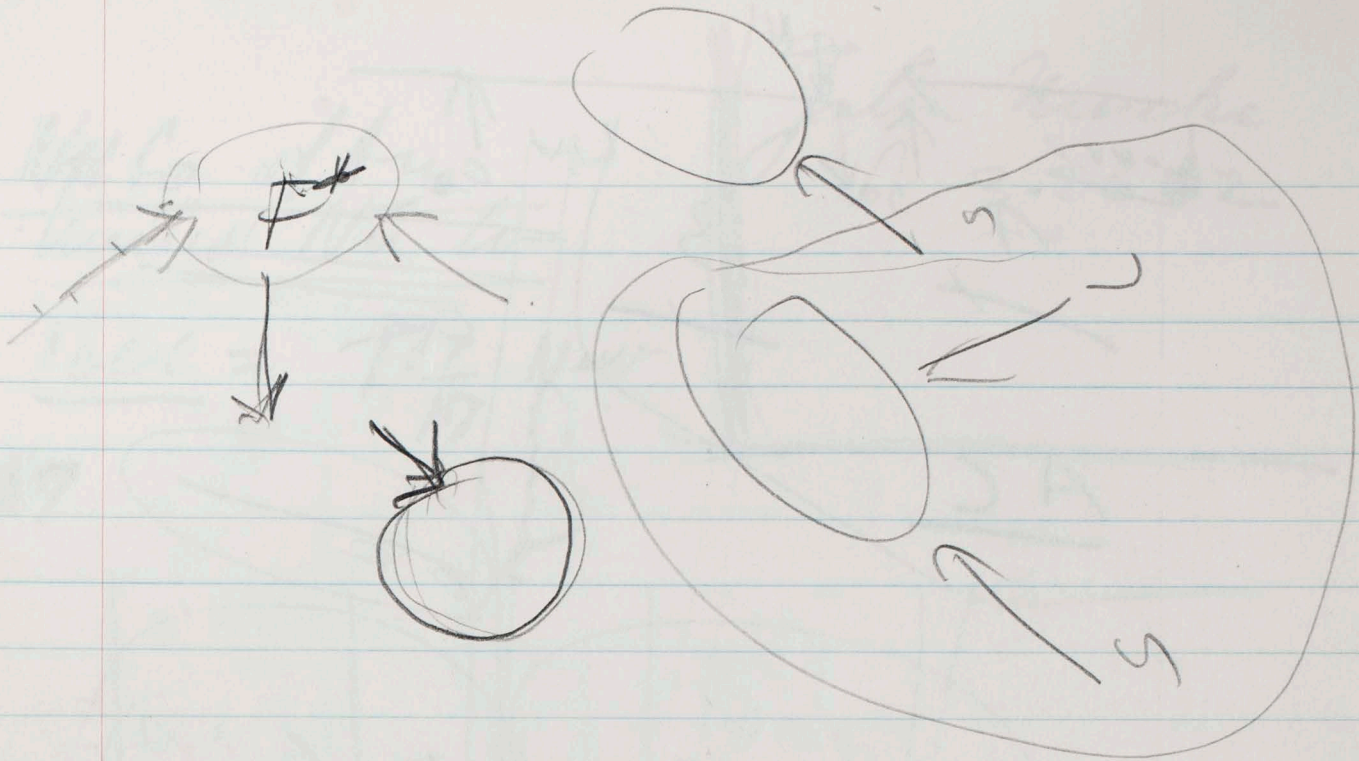
Bam

transient II

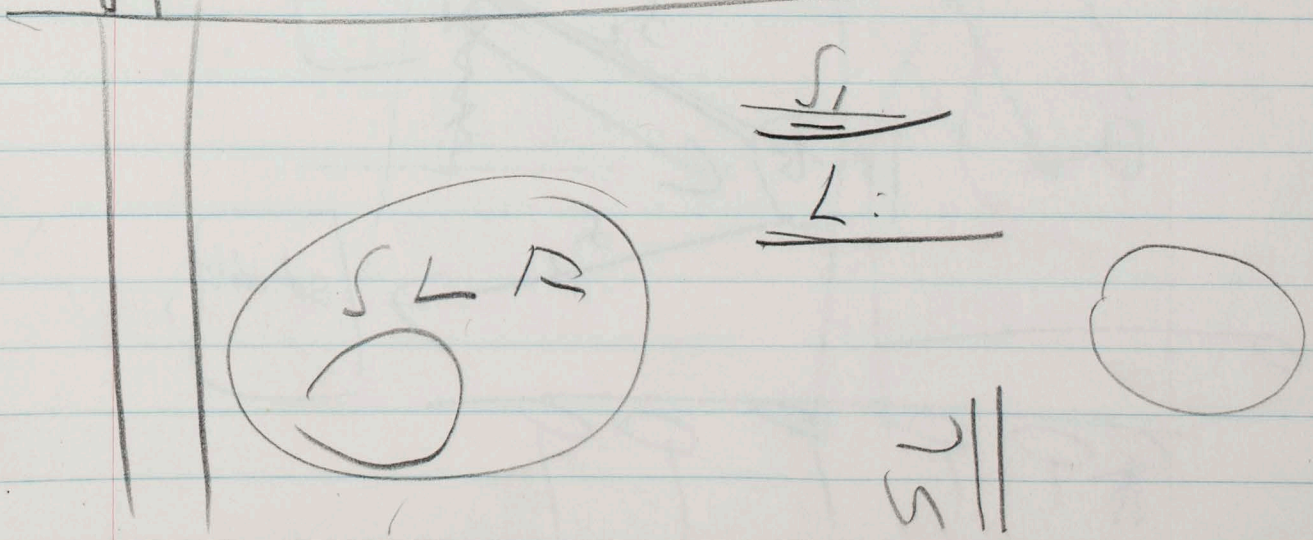
Bend

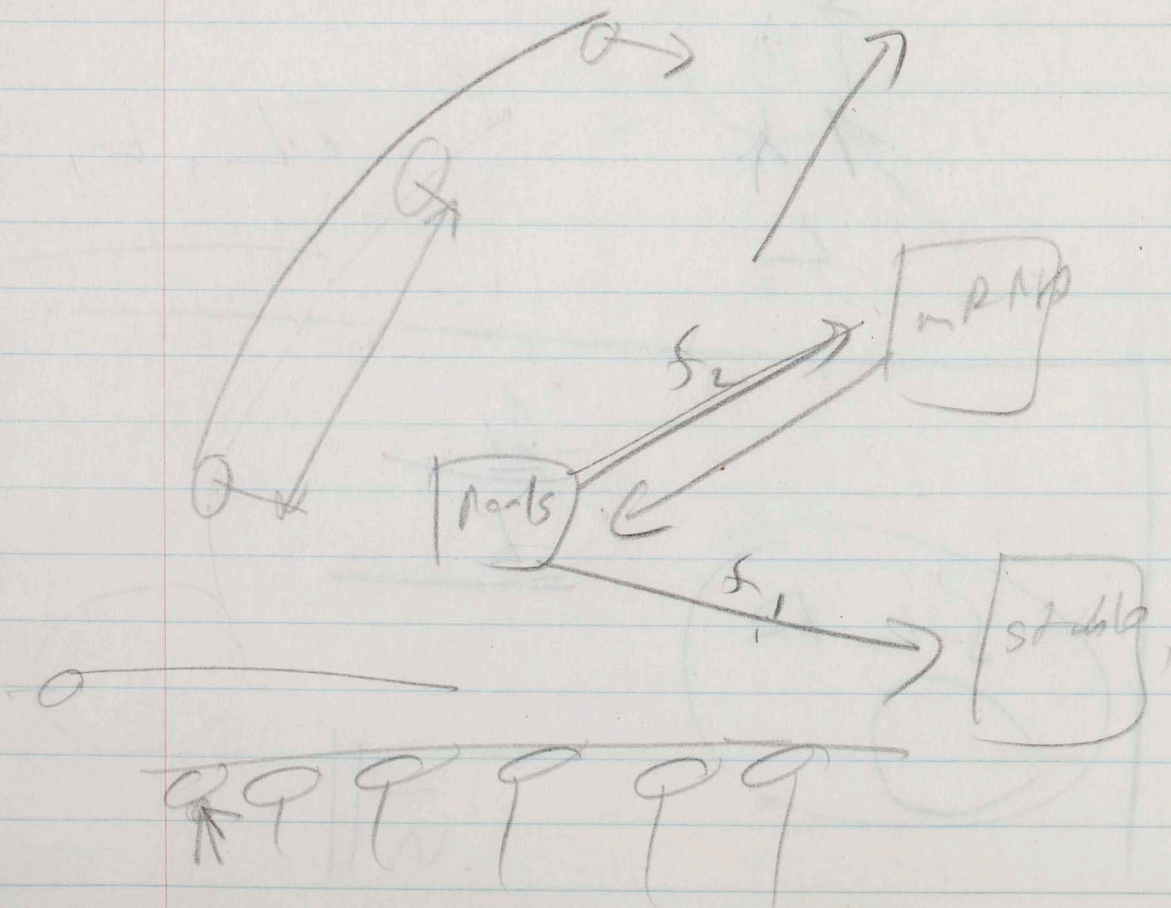
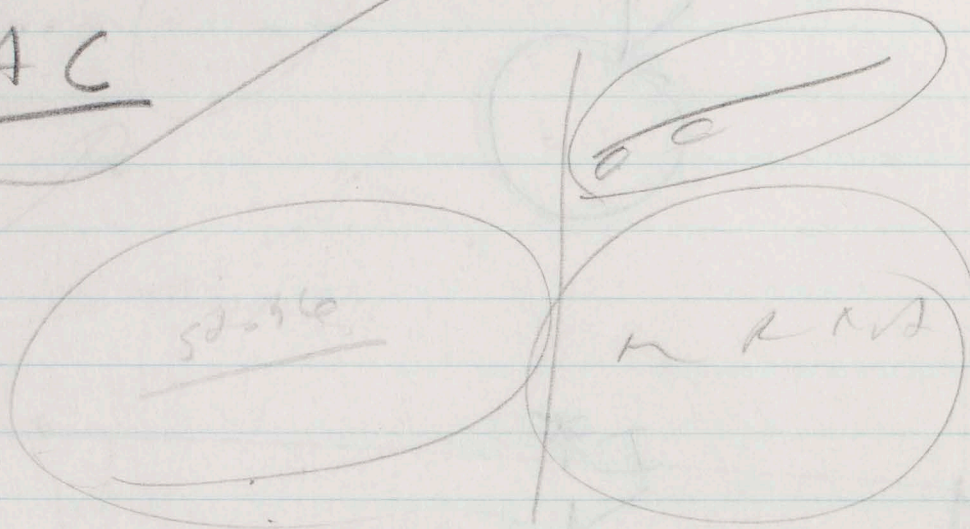
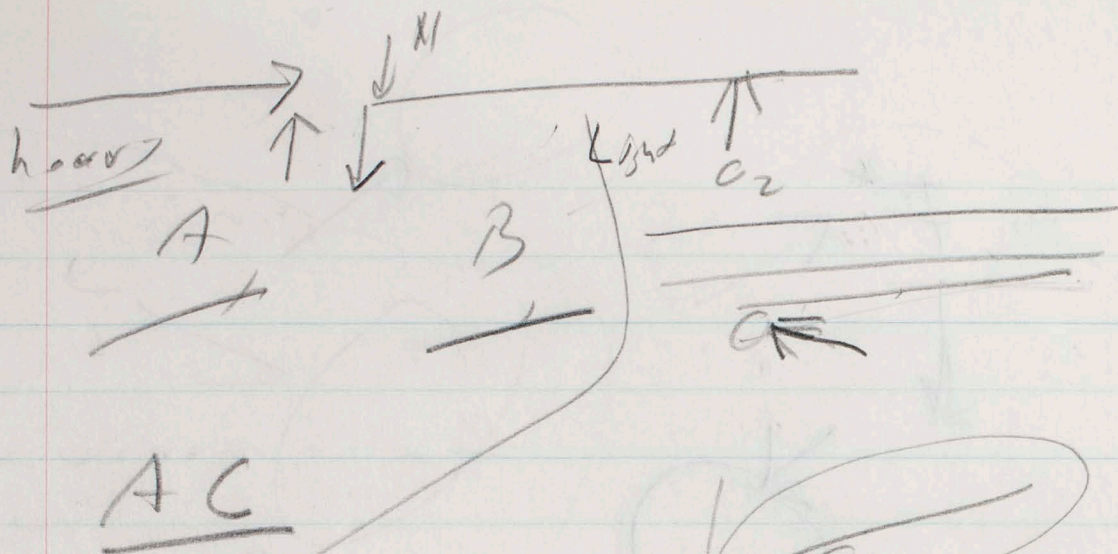
$$\frac{T_1}{1 + T_2}$$





L, L, L



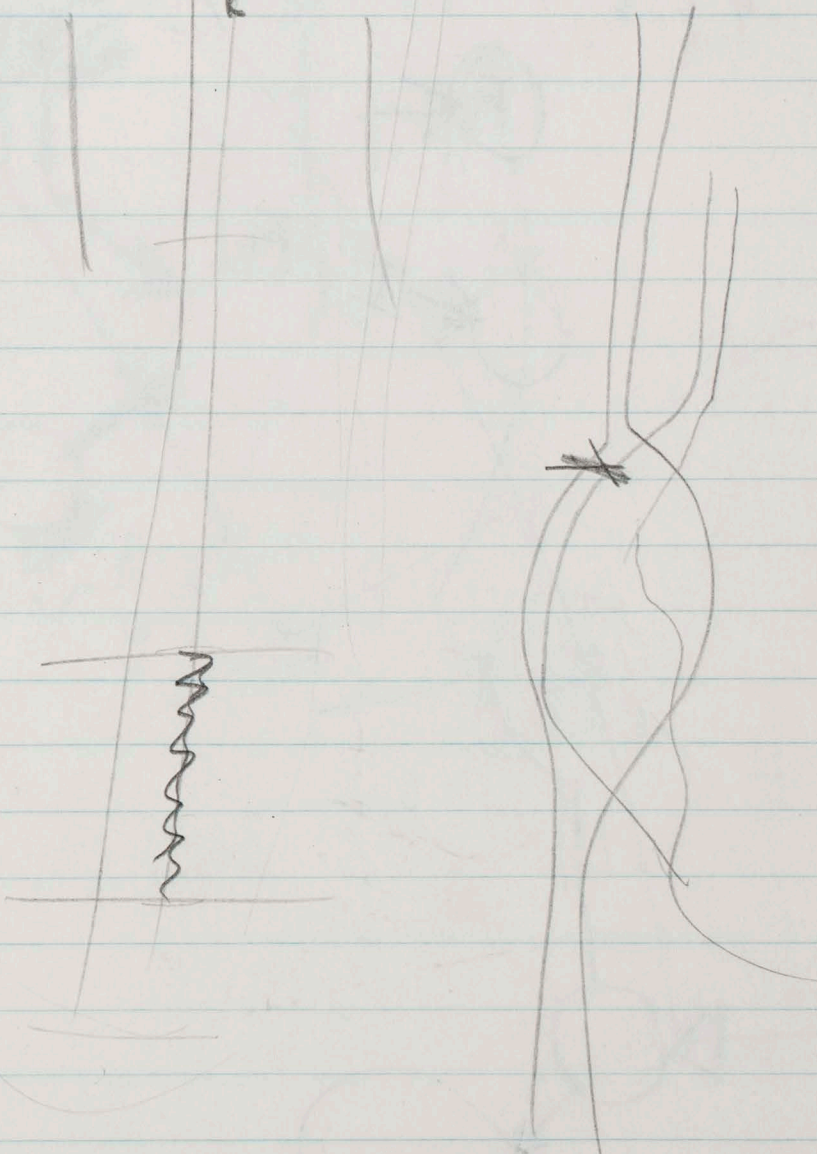


Old Co of Am
United Nu Co

~~John Munka~~
Sc 3-2602

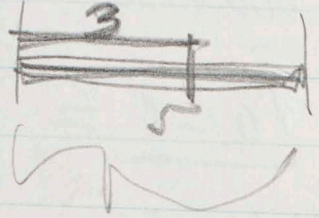
1 old = $1 \frac{7}{17}$ New

#7



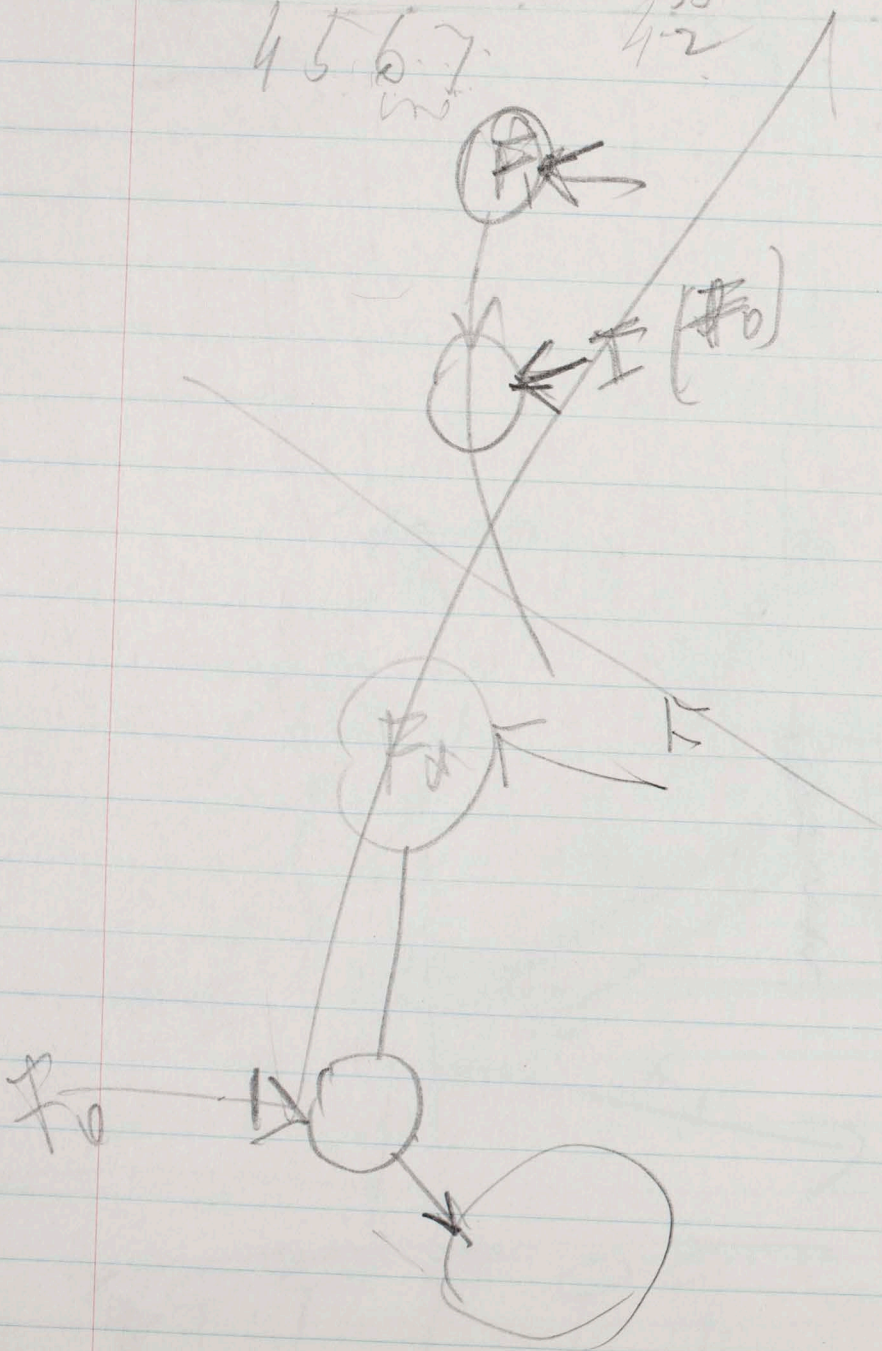
5

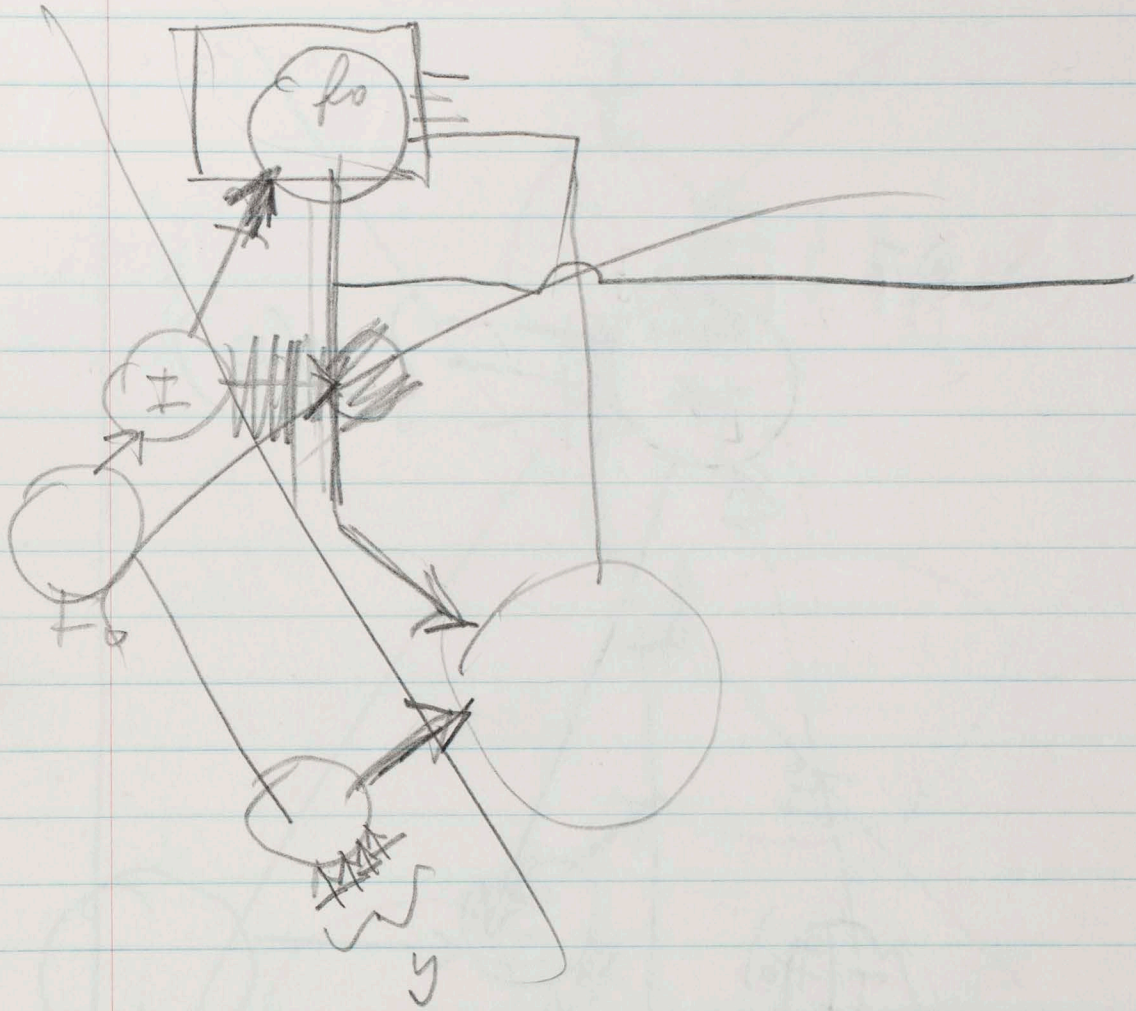
30

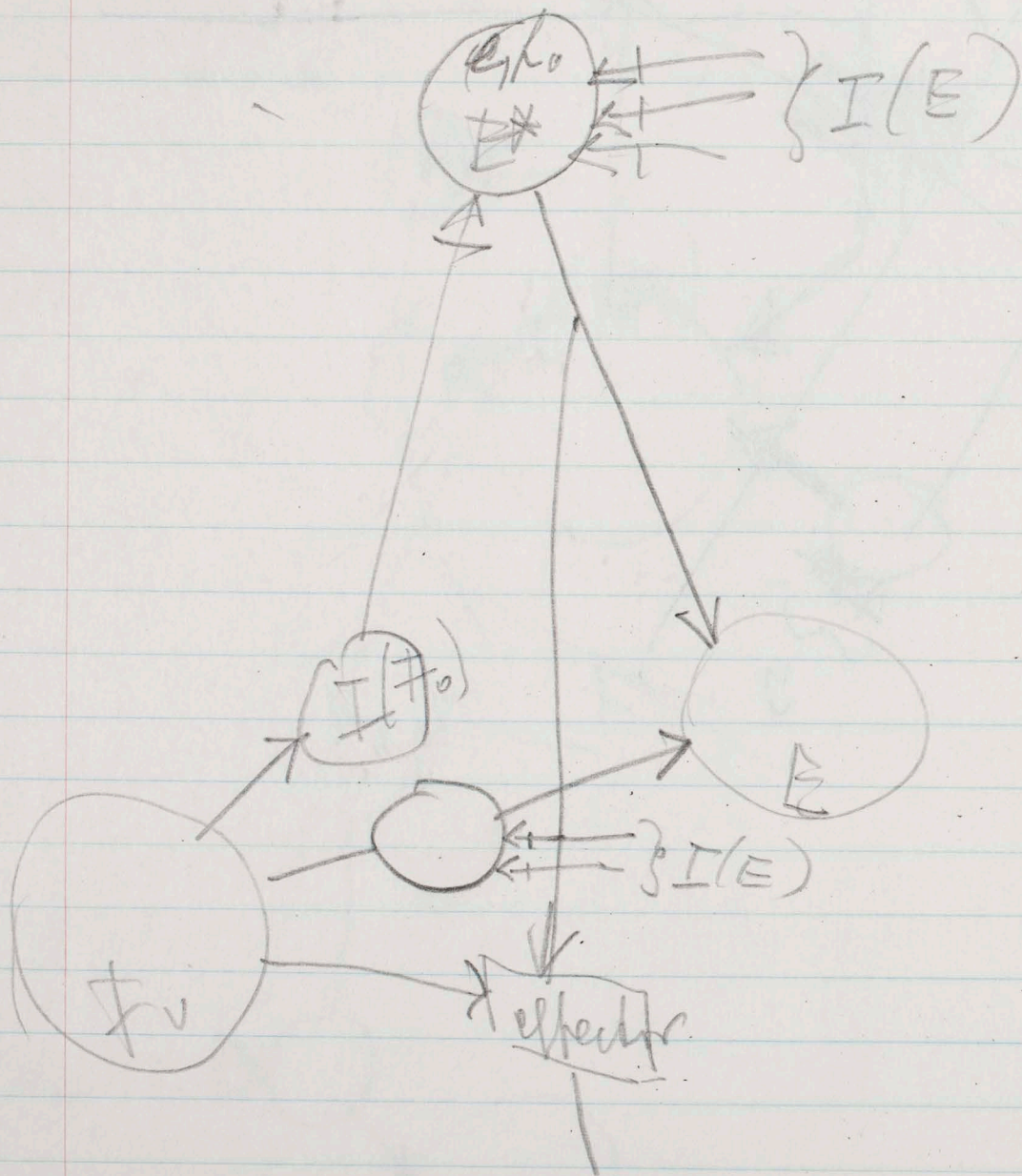


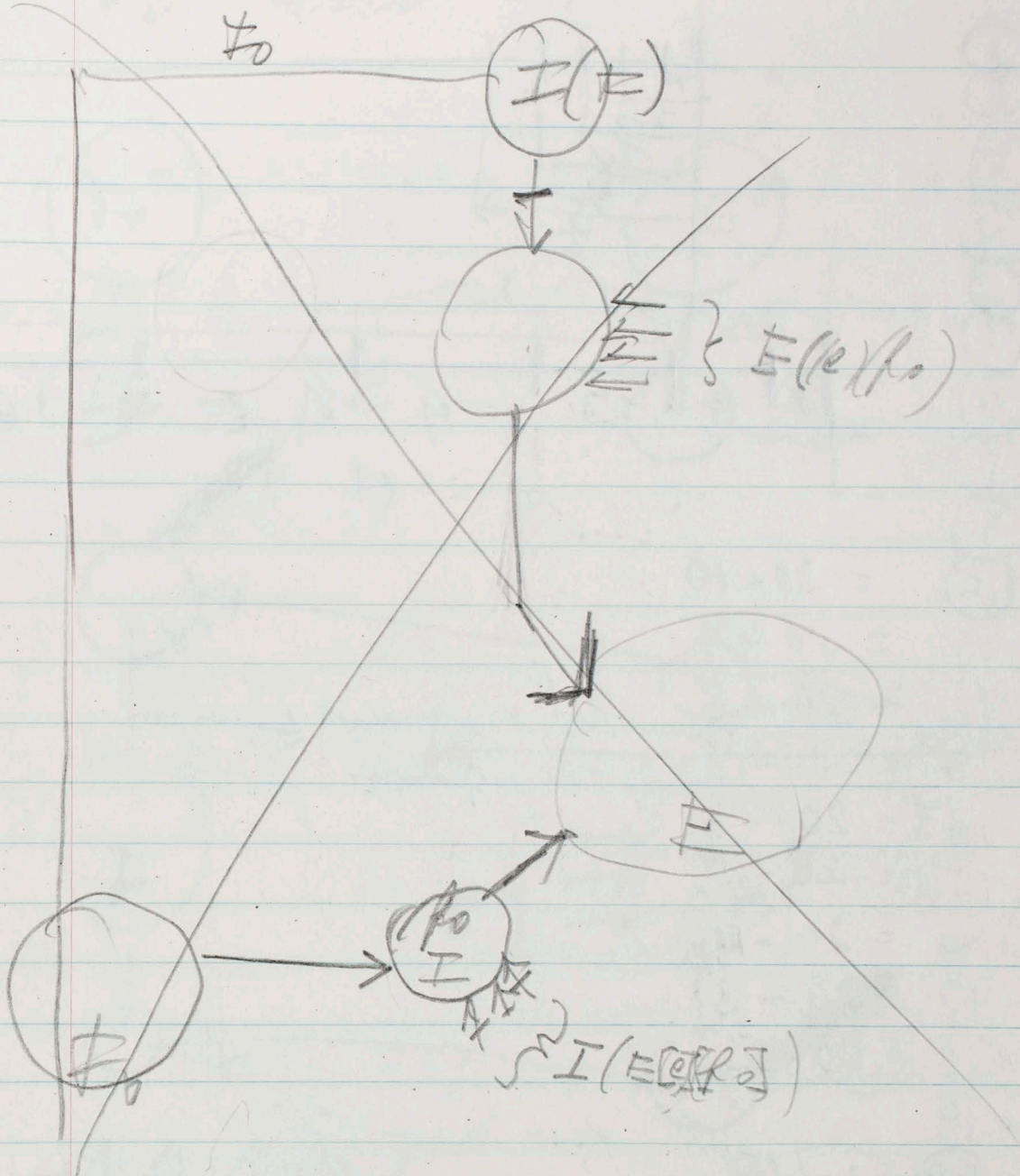
45 6.7

30
3.5T
4-2

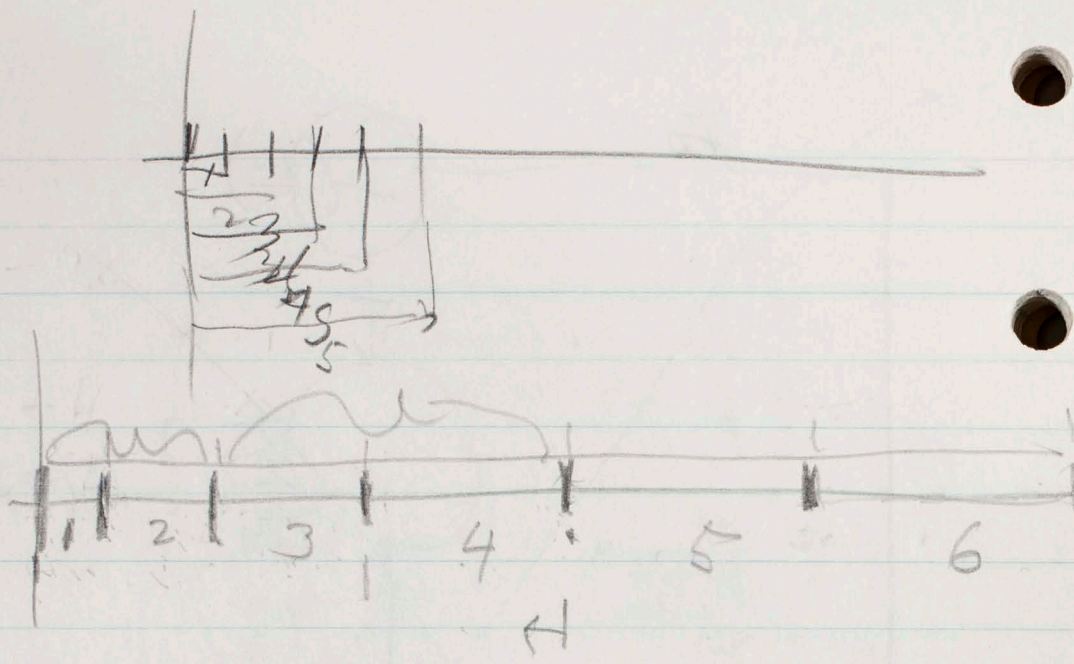








- ①
- ②
- ③
- ④
- ⑤
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩



- ⑩ = 20 - 10
- 11 = 20 - 9
- 12 = 20 - 8
- 13 = 20 - 7
- 14 = 20 - 6
- 15 = 20 - 5
- 16 = 20 - 4
- 17 = 20 - 3
- ✓ 18 = 20 - 2
- ✓ 19

10
10
9
10

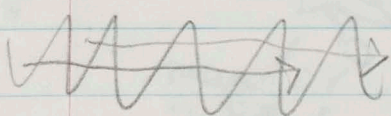
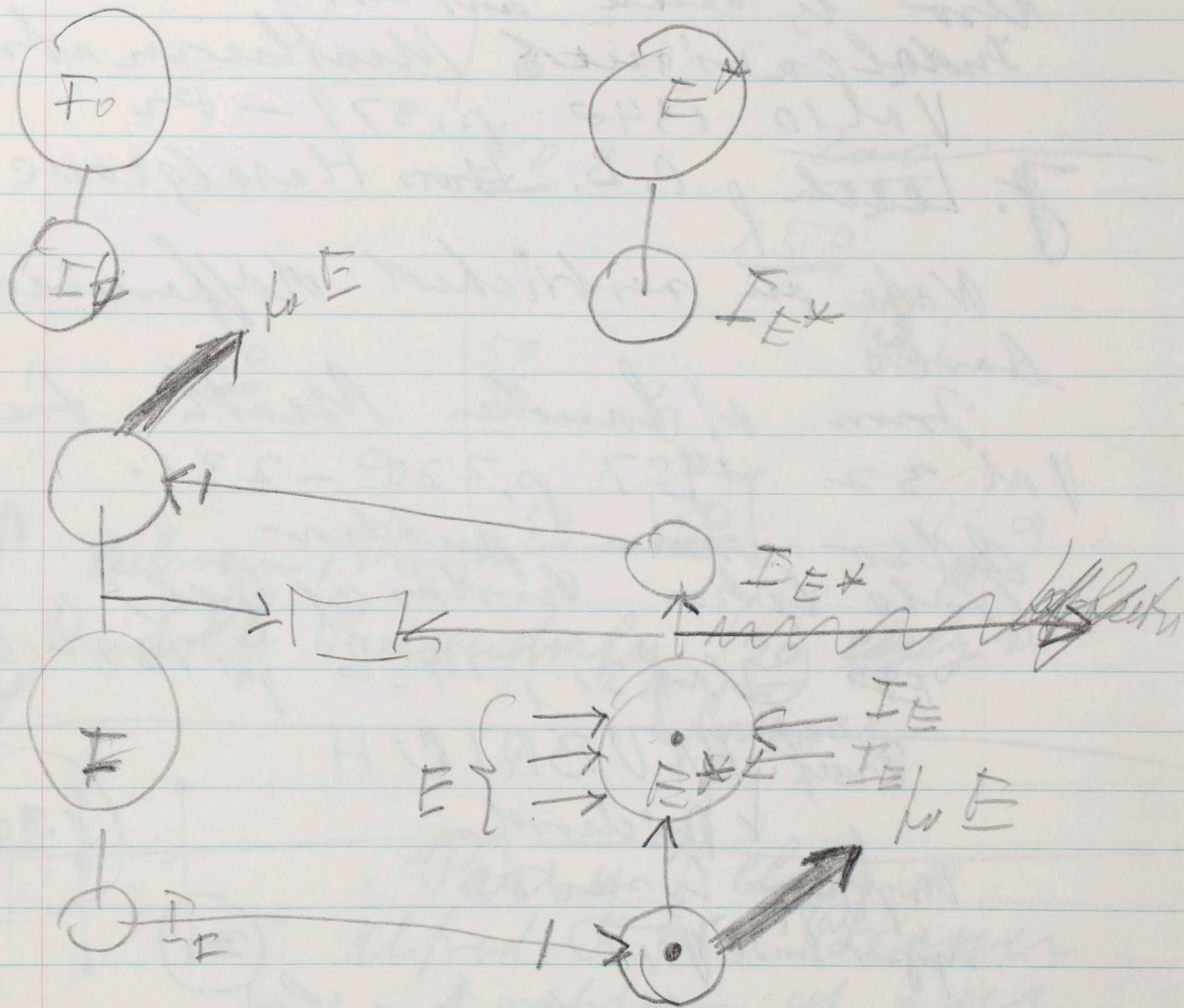
②⑩ - 1 = 19

für uns

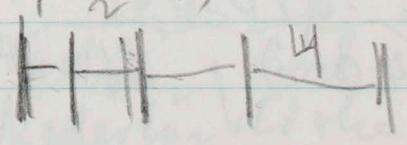
0 1 2 4 5 ~~6~~ ~~7~~

F_0 and E^*

1 2 3



1 2 3 4 5 6 7 8 9 10
 20 30 35 40 42 44 50 56 63



Vol 51 1948 p. 1155 - 58

also by same author

Indagationes Mathematicae

Vol 10 1948 p. 379 - #2

J. Leech p. C. B. Haselgrove

Take an restricted difference
basis

from J. London Math Soc.
Vol 32 . 1957 p. 220 - 231.

also same author
(note taken under 1 of Jul)

~~#~~ Vol 31, 1956 p. 160 - 169

Prof. HAUBRICH

↓ Richard

impose limit

upper limit \sqrt{N}

20 will do easily

1, 1, 1
10, 10, 10, 10

~~10, 10, 10, 10~~

0, 1, 2, 3, 10
20 30 40 100

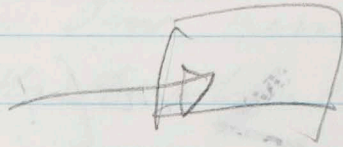
150

100

630

30

453 4100
Lev 2380



50

200

150

30

50

3

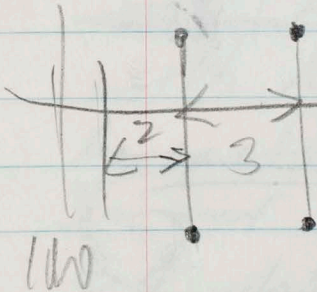
Belman; Prunk 50

70

130

Rudolf Preisendorfer (20) early 20

↓ Scripps +



Parry (Clay) #

[Alfred J. Branner

A problem of road
number theory and its appl
in lit. engineering]

To Elisha Mitchell Society
1945 p. 55 to 66 B

Erdős Gal

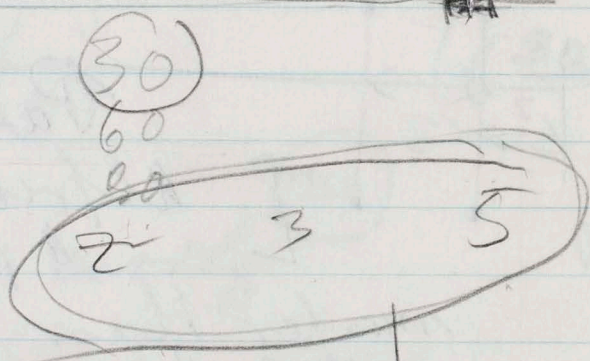
Proc of Nederlän dsche Reedsch Wetschappen
On the representation of 1, 2, 3 up to
by differences

Sum. Series Pola buak ko

$$\frac{n^k (n^k - 1)}{2} \rightarrow n(100)$$

$$\sqrt{2} \leq \frac{n^k}{\sqrt{n}} \leq 2 + \frac{1}{\sqrt{n}}$$

$\frac{P_i}{P_k}$



30

30

H

When our neural network is such that when the fully connected day is presented with

~~In our (model) a day which~~
~~had been fully ^{network} ~~input~~ signals from the~~
~~neurons E which the transcription to~~
~~neurons E when when the day which~~
~~had been fully connected to~~
the unprocessed signal is presented with the ~~visual~~ ^{input} signal, ~~reinforced~~ ~~or~~ that reinforced, ~~the~~ ~~same~~ neurons E which had been ~~transcribed~~ ~~during~~ ~~input~~ with the set $\{f\}$ ~~as well as~~ $\{g\}$ will ~~fire~~ be excited and will fire. ~~that~~

In our network model of a neuron E which has been transcription with the set $\{f\}$ fires but the neuron F does not fire the neuron F E will be caused to fire

270

90

180

270

200

2

$(1 + \frac{1}{10})^{20} = e$

83100

70

①

