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An optometer device adapted to a phoropter

J K. Berry

Pacific University

Maurice S. Dorsett Pacific University

Robert J. Luneburg Pacific University

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An optometer device adapted to a phoropter

Abstract

An optometer device adapted to a phoropter

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An Optometer Device Adapted to a Phoropter

Presented to Dr. C.B. Pratt in partial fulfillment of the requirements for the degree of Doctor of Optometry

Presented by
"J" "K" Berry
Maurice S. Dorsett
Robert J. Luneburg

in the Spring Semester 1962

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Introduction

The purpose of this thesis was two fold: 1) to see if an optometer device adapted to a phoropter testing situation is practical and valid, 2) to see if there is any difference in response with respect to acuity size.

We tested 30 subjects, all but one of which were optometry students and therefore experienced observers. The age ranged from 18 to 33 with a mean of 24.7 years. Of the 30 subjects 12 were myopes, three of which wore contacts, three emmetropes, and 15 hyperopes.

Each of the three examiners tested ten subjects. The testing was begun after each of the examiners acquired proficient skill in the procedure outlined.

All testing was done with a single green phoropter in room 23 in the Pacific University Optometry Clinic. Illumination consisted of the two bottom switches and the phoropter light, all of which was measured to be 35 foot candles at the plane of the targets.

Examination Procedure

- I. General Information
 - 1. Record name, age, and date,
- II. "P" Factor
 - 1. Determine "P" factor from the following formula using the patients most recent visual examination.

"P" =
$$\frac{(\#7a) + (\#7-.50) + (\text{Red green}) + (\#4)}{4}$$

- III. Pupilary distance
 - 1. Determine the far Pd by the light reflex method.
 - 2. Determine near Pd by subtracting 4 mm from the far Pd.
 - IV. Testing Procedure (rounded to nearest .12^D using 35 ftc. illum)
 1. Near Cylinder Test The target is a reduced snellen
 - 20/20 line of letters. Occlude O.S. and add plus to blur out and recovery. Occlude 0.0. and add plus to blur out and recovery. Change the target to a 90-180 cross grid and occlude the O.S. Ask if the vertical or horizontal lines are darker. If vertical, set axis at 180° and if horizontal, set the axis at 90. In both cases add minus cylinder asking subject when the opposite lines are darker. Go beyond this point .250 then reduce cylinder power until the original lines are darker. Record the mid-point of these reversals as minus cylinder (no axis recorded yet). Now change to a 45-135 cross grid. Ask if the up-to-right or up-to-left lines are darker. Turn axis slowly away from the darker lines until reversal. Turn opposite direction until we have a reversal again. Repeat this procedure until a definite range is established and record the mid-point of this range as the axis. If equal stop here and leave axis at this position; if not equal, turn axis 5° in indicated direction and leave in this position. After determining the power and axis on the O.D. repeat the same procedure on the O.S.
 - 2. Take the #14a using the alternate occlusion method.
 3. Take the 15a from B.I. to B.O. and then from B.O. to B.I.

 - 4. Take the #14b combined with 5 B.I. before each eye.
 - 5. Take the #14b.
 - 6. Take the #14b combined with 5AB.O. before each eve.
 - 7. Take the #14b.
 - 8. Take the #14b combined with the heavy chevron.
 - 9. Determine the base by averaging steps #5. 7, and 8 to the nearest 1/40.
 - V. Optometer series (rounded to nearest .120 using 35 ft. candles illumination)
 - 1. Using the 20/20 optometer card we set 14 B.U. O.D. combined with $\pm .75$ cross cylinder with the plus axis 45° . There are no cross cylinder or prisms before the O.S. Using the base with its aniso, put the base before the O.S. and the base -.50° before the O.D.

Instructions: Ask them if they can see two vertical black lines and to report if they ever see more than two of them. Occlude the O.D. and ask the patient to keep these letters clear and report if they ever blur. Next occlude the O.S. and ask them not to look directly at the chevron during the testing. Now with both eyes uncovered instruct the patient to look at the letters and to report whether the right or left arm of the chevron is the darkest and more distinct after each lens change. Do not look directly at the lines.

Procedure: The left should now be darker, if not, reduce the plus before the O.D. We now add plus to the O.D. until they reverse and record the reversal to the nearest .12°. Add +1.00° to O.S. and deduct +.25° from O.D. and repeat the above procedure. Repeat with +2.00°. Flip cross cylinder to plus axis 135° and repeat again with +2.00°. In this case we reduce plus to reversal. Reduce O.S. to +1.00° and add +.25° to O.D. and repeat. Use this same procedure using the base, -1.00°, -2.00°, and -3.00°. Leave O.S. at -3.00° and reduce O.D. by +.25°. Flip cross cylinder to plus axis 45° and left set should be darker. Go to reversal, add +1.00° to O.S. and reduce O.D. by +.25°. Repeat at -2.00°, -1.00°, and the base. Repeat this procedure with the other optometer cards. If the target doubles add lateral prism (B.I. on plus side or B.O. on minus side) and reduce it to 10°B.O. or B.I. if possible.

VI. Phorias

1. The target is a reduced snellen 20/20 line using 14^{\triangle} B.D. O.S. and recording phoria from B.I. and from B.O. We use these controls in the following order: base, $+1.00^{\circ}$, $+2.00^{\circ}$, $+2.00^{\circ}$, $+1.00^{\circ}$, base, -1.00° , -2.00° , -3.00° , -3.00° , -3.00° , -2.00° , -1.00° , base.

Target Discription

The optometer targets were devised with suggestions from Dr. Pratt and Dr. Haynes as they had experimented with similar targets. The cards were made 9 1/2" x 11" so that the subject could not see the edges of the card. (The field @16" through the Green's phoropter without turning the eyes is approximately 6" to 6 1/2" in diameter). The vertical black lines were ruled on with India ink with 1 1/16" between the lines and 1 5/16" between their outer edges and the width of each line being 1/8". The line of letters (20/20, 20/40, and 20/80) were cut from the Bausch and Lomb reduced Snellen card and glued to the card so that they appeared straight ahead. These letters had an overall height of .8mm, 1.2mm, and 2.4mm respectively. The chevron was cut from the bold cross grid card available at the Pacific University Book Store and glued on the card with its bottom edge 5.2 cm above the top of the line of letters. The chevron's lines are .9 mm wide with a .7 mm space in between the lines. As the patient sees the field the chevron is approximately 1.1 peripheral from the line of letters. With approximately 14 base up before the right eye its view is displaced down so that the chevron is just above the line of letters seen by the left eye. With the left eye viewing the letters any change in power before the left eye is a change in the stimulus to accommodation. Peripherally the chevron is equalized by means of a crossed cylinder. 2.75 cross cylinder was used because the chevron is peripheral and larger than normally used. These were made by gluing two 2.37 crossed cylinder together. The resulting change in power for the right eye is a measure of the

response of accommodation due to the change in stimulus for the left eye.

Figure 1, page 6 shows the view seen by the left eye with a 6 1/2" field centered around the line of letters. The right eye sees the same view but with a 6 1/2" field centered around the chevron. The subject when fusing the two vertical black lines which are common, sees the composite photo seen in Figure 2, page 6. The phoria card is the same as the 20/20 optometer card, but with no vertical lines. Figure 3 shows both sides of the card used for the near cylinder test and standard cross cylinder tests. These two are available at the Pacific University Book Store and were glued back to back. The diagonal cross grid was used for the 14B with and without prism using again the \$\frac{1}{2}.75\$ crossed cylinders.



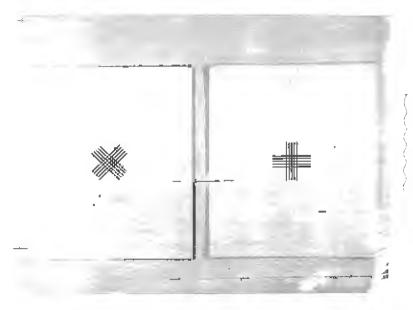
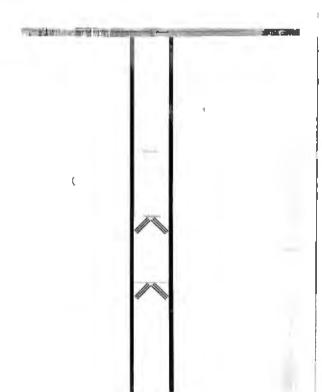
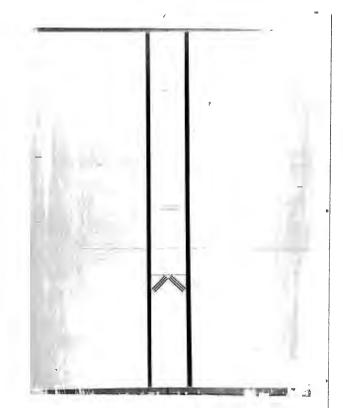


figure 1





Calculations and Data Sheet

The 14B⁺, 14B⁻, 14BCchevron, Base, 14BC10^AB.I. and 14BC 10^AB.O. were plotted on the small graph in the lower left corner of the data sheet. The findings with B.O. and B.I. prism were connected with the mid-point of the 14B⁺ and 14B⁻. Then parallel dotted lines were drawn through the base point. If prism was used in any optometer findings we could easily find by how much the base and stimulus should be altered, and the resultant response plotted on the large graph in the lower right corner of the data sheet.

The optometer data (upper-right) was plotted. On the response vs. stimulus graph (lower-right) the base is represented at the intersection of abscissa and ordinate. The abscissa represents the response with increasing accommodative response to the right. The ordinate represents the stimulus with increasing stimulus upward. If, then, the response were equal to the stimulus the point would be plotted on the diagonal one-to-one (45) line. In general, the response was less than the stimulus and the plotted line was more vertical. The lines representing 20/80, 20/40, and 20/20 were drawn in color code by the best fit method. To determine these points we took the average of the two (three in the case of base) optometer response end points for that stimulus and entered the net (from base) in the table in the center of the page. If the subject noted the letters were blurred we denoted it by perenthesis. If, because prism was used, the line on the graph did not reach that stimulus

point we denoted it by a dash in the table. Since the phorias were taken one from excessive B.I. and one from excessive B.O., at each diopter stimulus in each direction of the cycle, we had 4 (6 in the case of base) phorias to average. This average was corrected for the distance of the prisms in front of the center of rotation of the eye by the factor .85, rounded to the nearest 1/4D, and entered in the table corresponding to the stimulus step. Note: The 15A is not corrected.

The graph to the center right shows the corrected phorias plotted relative to stimulus (solid line) and relative to net response (dotted line). The base and orthophoria form the crossing point with increasing stimulus or response to the right and increasing exophoria upward.

All data and calculations are recorded on each individual data sheet and all statistics done by taking results from the data sheets.

General Statistics

In general, in the statistics we were interested in differences and not absolute values. The notation -3 -2 for instance, indicates the difference between the response at -3^{0} stimulus and -2^{0} stimulus, or the difference between the phoria at -3^{0} stimulus and -2^{0} stimulus taken from the table.

In the case of response equals stimulus (R=S) or the crossing point on the graph, this was taken from the graph by visual inspection as the point where the line crossed the one-to-one line.

The results of the statistics are given in table form, showing the mean, number, standard deviation, mode and median.

The number in some cases is less than 30 because the net responses denoted as blurred or prism in place were not included.

The following items were plotted against each other to see if there was any justification in calculating the correlation coefficient, but they all formed a symmetrical circular plot: 20/20 response vs. 14B*-P; Age vs. 20/20 response; phoria/sphere (stimulus) vs. 20/20 response; and age vs. phoria/sphere (stimulus).

TABLE I

Base point measures.

(A) Difference BASE POINT	between base po	oint meas N	ures and S	MODE	MEDIAN
14A-P 14B+-P 14BP CH-P B-P (B+2)-P	+1.40 +.84 +.84 +.55 +.72 +2.72	30 30 30 30 30 30	.209	+1.75/1.87 +.62 +.87 +.37 4 moda1 4 moda1	+1.50 +.87 +.87 +.37 +.62 +2.62
P	383	. 30	1.47	0	0/+.12
(B) Difference BASE POINT	between base po	oint meas N	ures S	MODE	MEDIAN
14B+-14B- 14B+-CH 14B+-B 14B- CH 14B- B CH-B	0 +.312 +.125 +.296 +.125 171	30 30 30 30 30 30	.252 .326 .252 .324 .250 .206	0 +.25 +.125 +.25 +.125 125	0 +.25 +.125 +.25 +.125 125

TABLE II

14B with 10 $^{\Delta}$ B.I. and 10 $^{\Delta}$ B.O.

(A) Cros	S CYLINDER TEST	MEAN	N	\$	MODE	MEDIAN
14B+	BI	.42 1	30	.300	+.250 /	+.375
	BO	.508	30	.340	+.250	+.500
14B	BI BO	.42 1 .508	3 0 3 0	.402	+.750 +.500	+.375/.500
14B ¹	BI	.417	30	.329	+.625	+.375
	BO	.513	30	.300	+.375	+.375/.500

^{1&}lt;sub>Mid-point</sub>

(B) Diopters of change in accommodation per corrected prism value (factor.85).

PR ISM	CHANGE		
BI	.05 D/A		
BO	.06 D/A		

TABLE III

Response equals stimulus (crossing point on graph)

TARGET	MEAN	N	S	MODE	MEDIAN
20/80	0	30	.6 <i>5</i> 5	+.37	+.06
20 /40	0	30	.625	0	0
20 / 20	125	30	.785	0	0

TABLE IV

Response for each diopter change in stimulus.

(A) CHANGE IN from	STIMULUS to	MEAN	N	S	MODE	MEDIAN
-3.00	-2.00	+.385	13	.355	+.50	+.50
-2.00	-1.00	+.360	25	.289	+.125/.25	+.25
-1.00	Base	+.380	29	.326	+.12	+.37
Base	+1.00	+.340	29	• 249	+.25/.37	+.37
+1.00	+2.00	+.184	19	.247	+.37	+.25
individua1	mean*	+.346	30	.217	+.50	+.37

The above findings were taken on a 20/20 target.

(B)						
_	STIMULUS	MEAN	N	S	MODE	MEDIAN
from	to					
-3.00	-2.00	+,368	18	. 370	+.125	+ 37
-2.00	-1.00	+.367	29	.382	+.25	+ 5
-1.00	3ase	+.384	30	.312	+.50	+ , ,
Base	÷1.00	+.304	30	.224	+.125/.25	+ 5
+1.0 0	+2.00	+.234	23	.257	4 moda1	+ <u>,</u> i
individua	1 mean*	+.338	3 0	.210	+.125/.375	+.31

The bove findings were taken on a 20/40 target.

(C) 4 FE IN	STIMULUS to	MEAN	N	S	MANDE .	MEDIAN
-3.00	-2.00	+.369	20	.310	+.50	+.37
-2.00	-1.00	+.293	29	.360	+.125	+.25
-1.00	Base	+.430	30	.312	+.50	+.50
Base	+1.00	+.354	30	.241	+.250	+.25
+1.00	+2.00	+.174	23	.648	0	+.125
individu	∺€a n*	+.317	30	.193	+.125/.50	*.25

The above findings were taken on a 20/80 target.

 $\label{eq:Table V}$ Difference in response for various acuity sizes.

(A) 20/20 to 20/40

CHANGE IN S	TIMULUS to	MEAN	N	S	MODE	MEDIAN
-3.00 -2.00 -1.00 Base +1.00 individual	-2.00 -1.00 Base +1.00 +2.00 mean*	0 065 022 +.056 099 +.083	12 25 29 29 19 30	.412 .358 .326 .261 .285 .141	0 0 125 125 0	0 0 125 +.125 125
(B) 20/20 to	20/80					
CHANGE IN S	TIMULUS to	MEAN	N	S	MODE	MEDI AN
-3.00 -2.00 -1.00 Base +1.00 individual	-2.00 -1.00 Base +1.00 +2.00 mean*	+.083 +.025 056 017 013 +.029	12 25 29 29 19 30	.326 .386 .345 .278 .261 .145	+.125 125 125 +.125 +.125 +.125	+.125 0 125 0 0
(C) 20/40 to	20/80					
CHANGE IN S	TIMULUS to	MEAN	N	S	MODE	MEDIAN
-3.00 -2.00 -1.00 Base +1.00 individual	-2.00 -1.00 Base +1.00 +2.00 mean*	+.086 +.074 +.008 050 +.063 +.021	16 29 30 30 22 30	.214 .329 .295 .292 .310 .118	0 +.25 0 0 +.125	0 +.125 0 0 +.125

TABLE VI

The groups of responses on 20/20 target.

GROUPS	MEAN	. N	S	MODE	MEDIAN
Lower	+.1125	10	.092	+125	+.125
Middle	+.350	10	.099	+.25/.375	+.375
Upper	+.575	10	.121	+.50	+.50

TABLE VII

Phoria Sphere.

(A) Stimulus CHANGE IN S from	STIMULUS to	MEAN	N	s ·	MOD E	MEDI AN
-3.00 -2.00 -1.00 Base +1.00 individual All	-2.00 -1.00 Base +1.00 +2.00 mean*	• —	30 30 30 30 30 30 30 180	1.56 2.02 1.95 2.16 2.38 1.36 4.75	2.25 1.75 3.50 1.00 .75 2.50 1.75/2.25	2.625 2.50 2.875 3.25 1.50 2.79 2.48
(B) Response CHANGE IN S from	STIMULUS to	MEAN	N	S	MODE	MEDIAN
-3.00 -2.00 -1.00 Base +1.00 individual	-2.00 -1.00 Base +1.00 +2.00 mean*	8.87 9.20 11.35	12 23 29 29 17 27	11.1 11.3 19.1 10.2 8.25 10.8	4.75 28.00 4.00 3.50	4.00/4.25 6.00 5.75 8.00 4.00 6.50
(C) Change in CHANGE IN S from		en changing MEAN	from s	timulus S	to response. MODE	MEDIAN
-3.00 -2.00 -1.00 Base +1.00 individual	-2.00 -1.00 Base +1.00 +2.00 mean*	+.528 +7.08	12 23 26 29 17 27	12.25 11.53 18.35 9.02 5.15 9.92	+4.50 0 +3.00	+1.75 +4.50 +3.75 +5.25 +3.75 +3.75

*Individual Mean:
Calculated by using the mean of the change in response for
the change in 1 diopter stimulus, then taking the mean of
these five 1 diopter changes.

Discussion

TABLE I

It is noted in table I that $14B^+$ and $14B^-$ are equal. We don't really expect a difference because $14B^-$ is taken after $14B010^4$ B.O. rather than from minus. The chevron is approximately $1/4^5$ and the base $1/8^9$ below $14B^{\pm}$.

Five subjects were expected to blur out at base plus 2.00°, because this was greater than "p" plus 3.25° for them. We would expect a reduction in the phoria sphere when the subject blurred due to a drop in response. This number of subjects is not significant enough to change our statistics.

All of this data was arrived at by using the sphere of the right eye only.

TABLE II

The B.O. is a little greater than the B.I. as is expected. The CAC when calculated from 14B⁺, 14B⁻, and mid-point show no significant differences.

TABLE III

Since the crossing point is zero we can conclude that the base point is reasonably valid.

TABLE IV

In all three acuity sizes we find the greatest change in response per diopter change in stimulus (R/S) at -1.00 and base; the R/S becomes less as we get farther from the base especially in the plus direction.

Looking at the mean for each acuity size we find no significant difference, but the 20/20 had a slightly greater R/S.

TABLE V

We find no significant difference in response with different acuity sizes. We expected to find a greater acuity response in smaller acuity sizes especially as we got farther from the base.

LABLE VI

We divided the subjects into three groups on the 20/20 mean responses and arrived at a median response of $1/8^{\circ}$, $3/8^{\circ}$, and $1/2^{\circ}$ for the lower, middle, and upper groups respectively.

TABLE VII

The phoria sphere as expected was found to be greatest at -1.00° from base and became lower as we go farther from the base especially in the plus direction. The mean of $2.89^{\circ}/1^{\circ}$ is less than the $4^{\circ}/1^{\circ}$ as is the expected average.

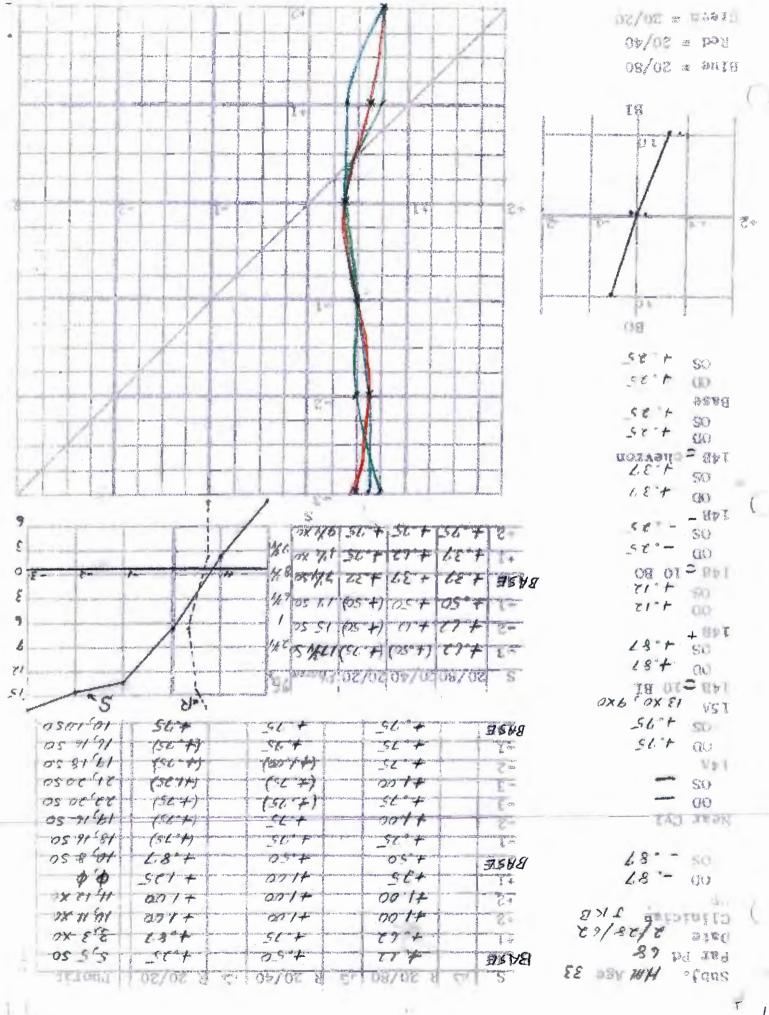
We get the ACA relative to response by dividing the change in phoria per diopter change in stimulus by the change in response for that diopter change in stimulus. This gives a phoria sphere significantly higher than the $4^{\triangle}/1^{\bigcirc}$ expected. There were subjects who had a definite change in phoria without a change in response. The change in phoria sphere when changing from stimulus to response is therefore also greater than the expected change.

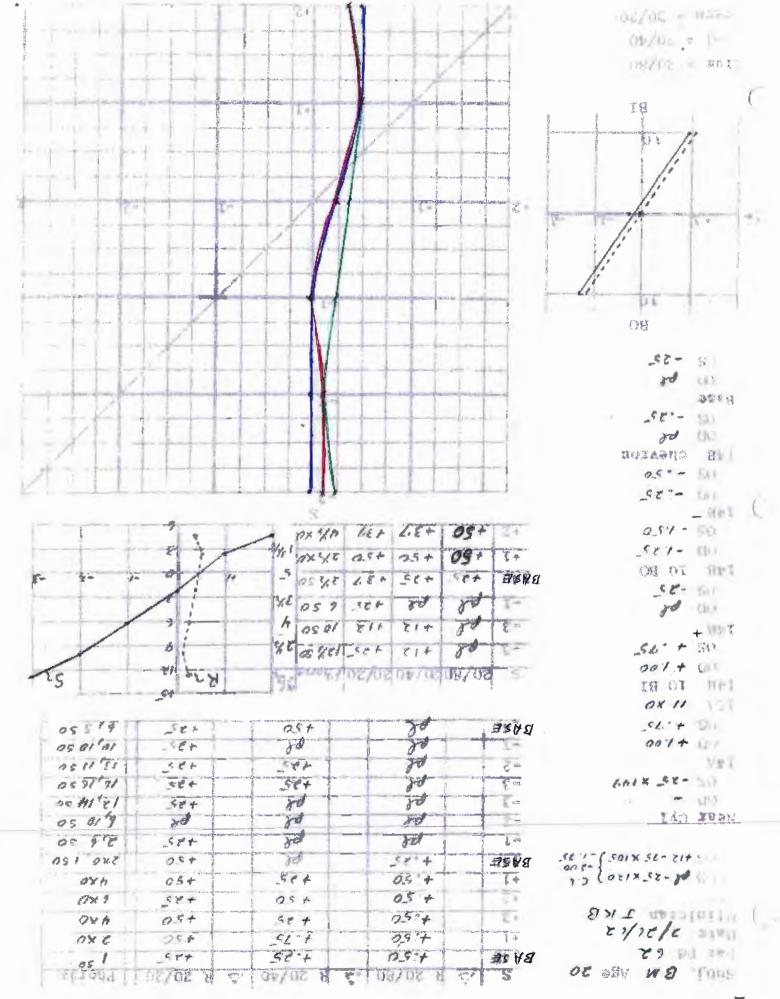
Conclusion

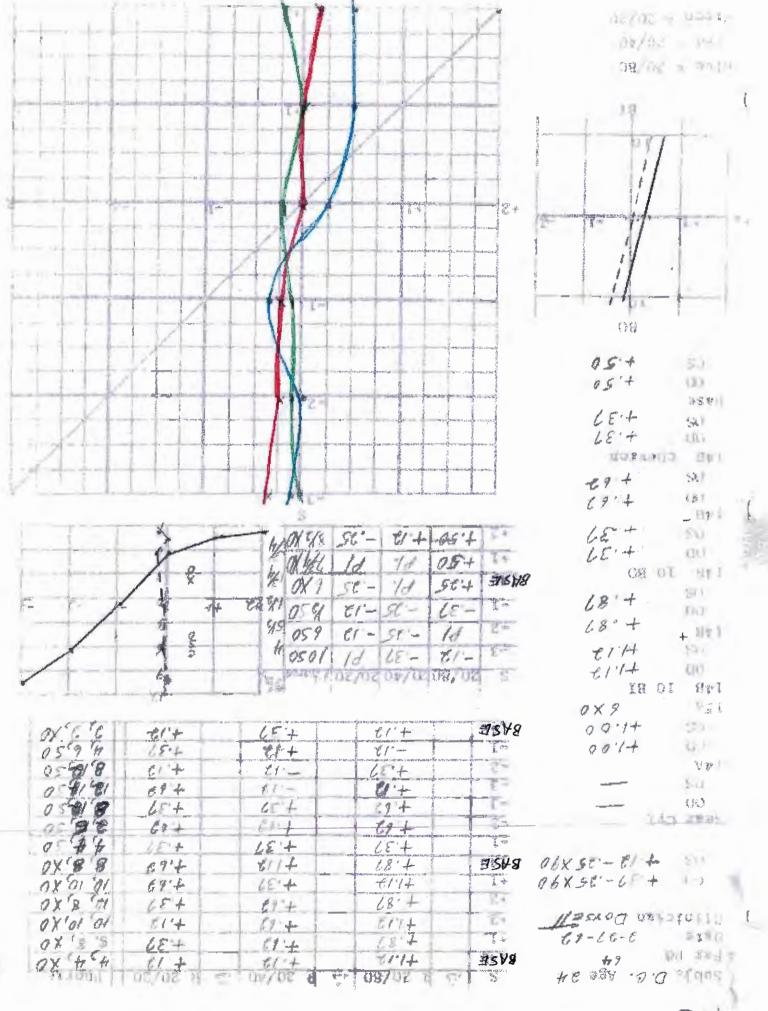
We can conclude that there is no significant difference in different acuity sizes for the response in accommodation to the change in stimulus.

The optometer device adapted to the phoropter seems to be practical and valid; however, the standard deviation of the crossing point on the graphs (response=stimulus) shows that the base point determination requires further investigation. For example, there were cases where the 14B⁺ and 14B⁻ were equal to each other, the 14B taken with chevron was 1/4^D lower than 14B[±], and the base point was 1/8^D lower. With this consistency we would expect the crossing point on the graph to be at zero ±1/8^D; but as we see it varied two diopters in one extreme instance from zero which seems to indicate that there are factors involved that were not taken into account in this thesis.

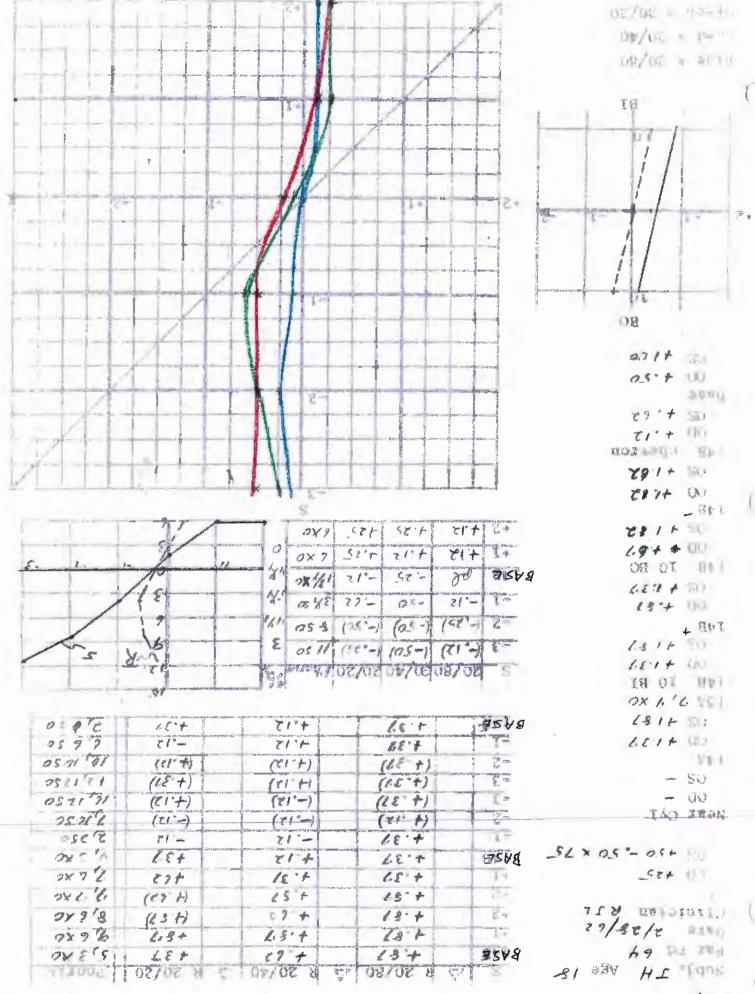
We found no indication as to how we can predict the percent of response other than measuring it.



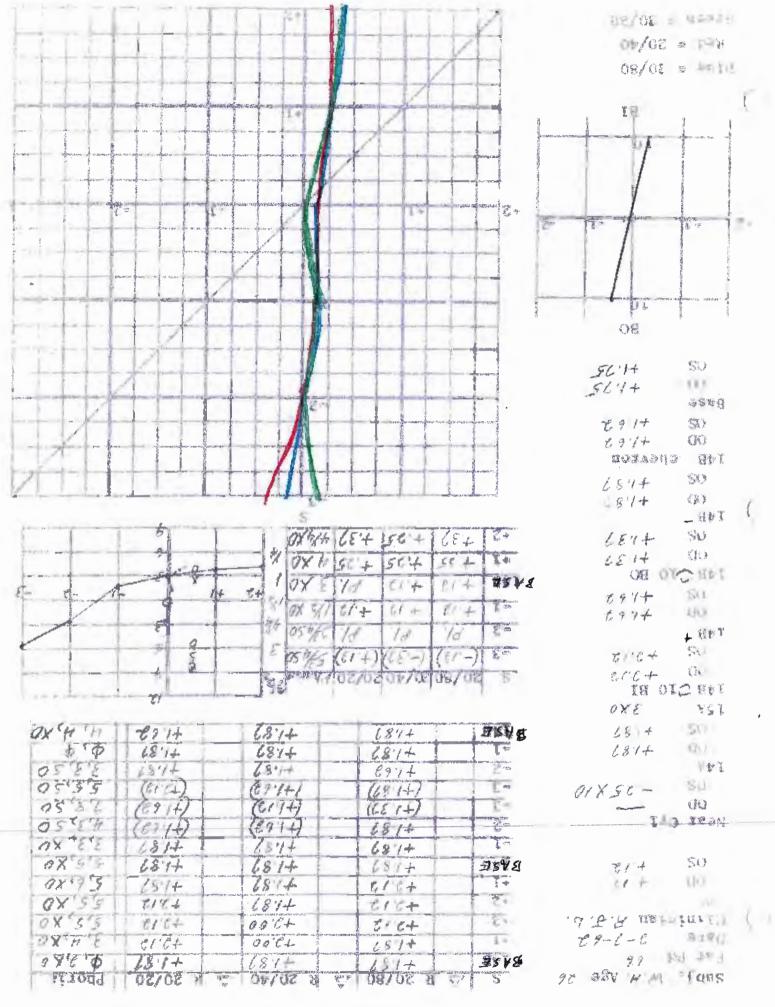




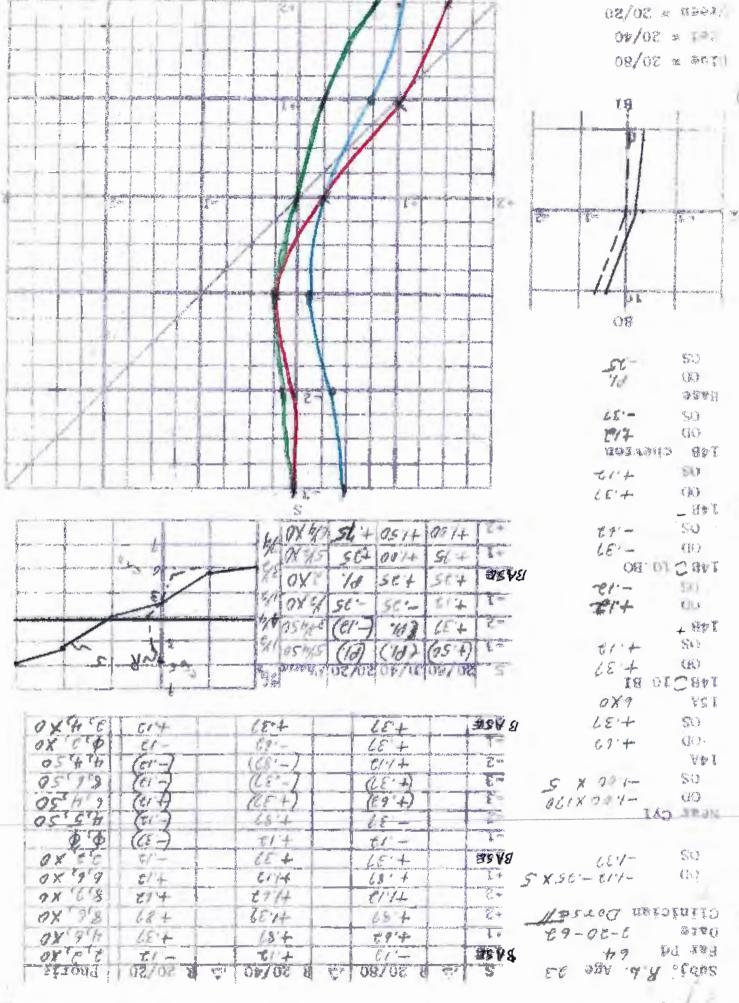
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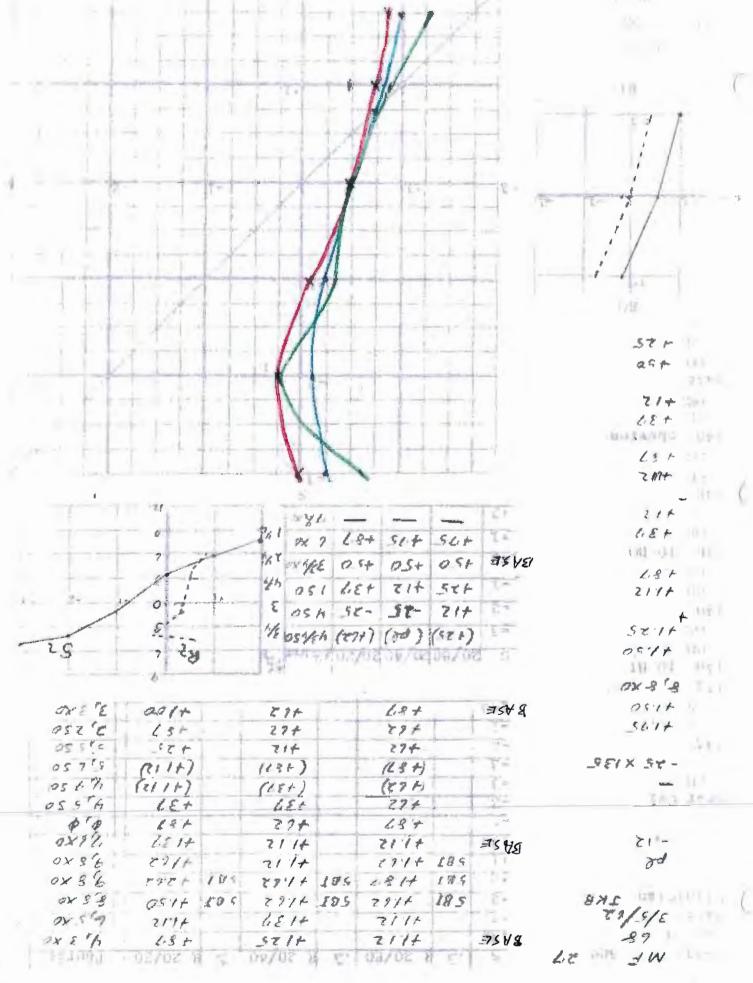


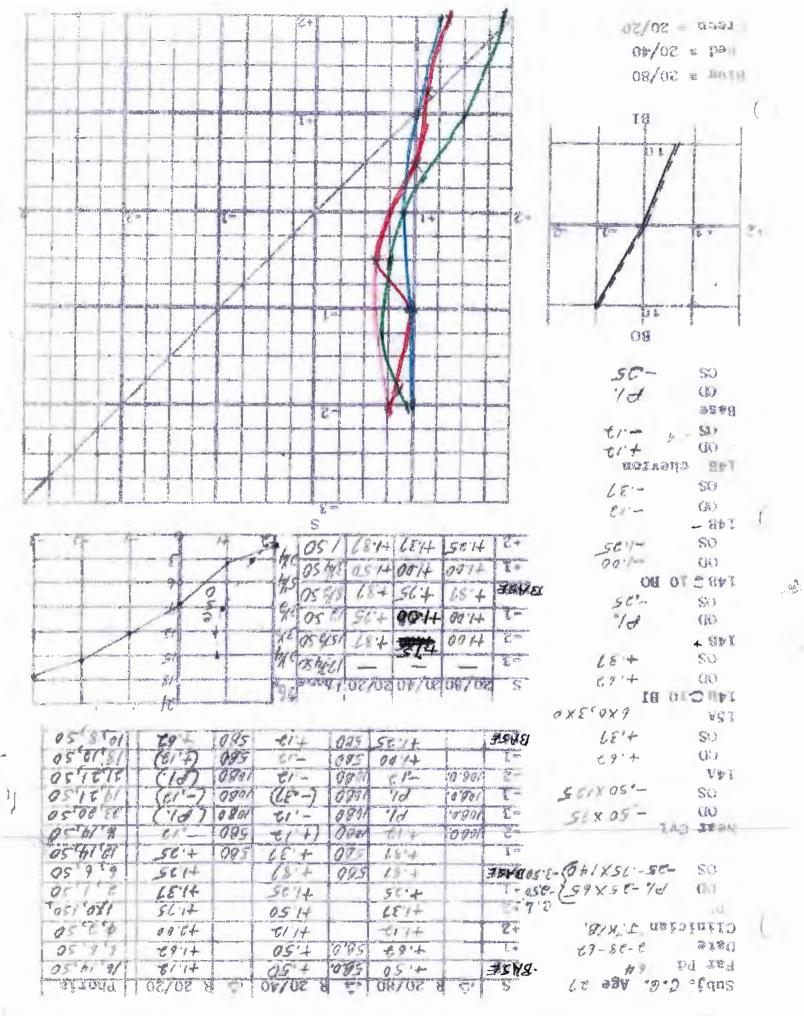
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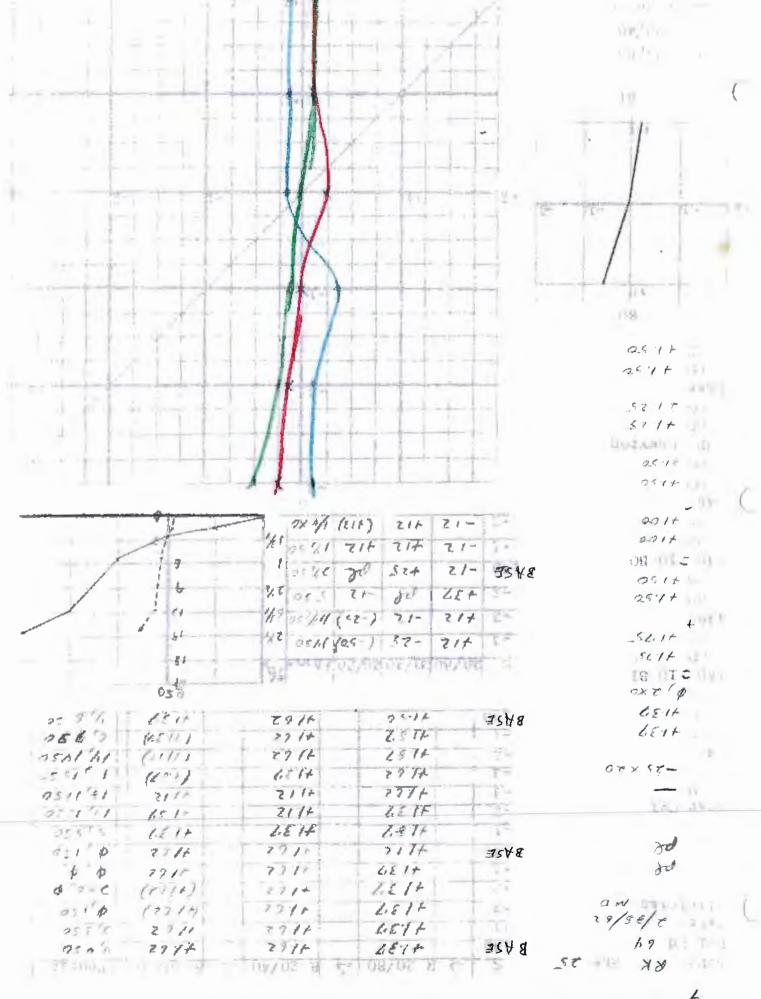


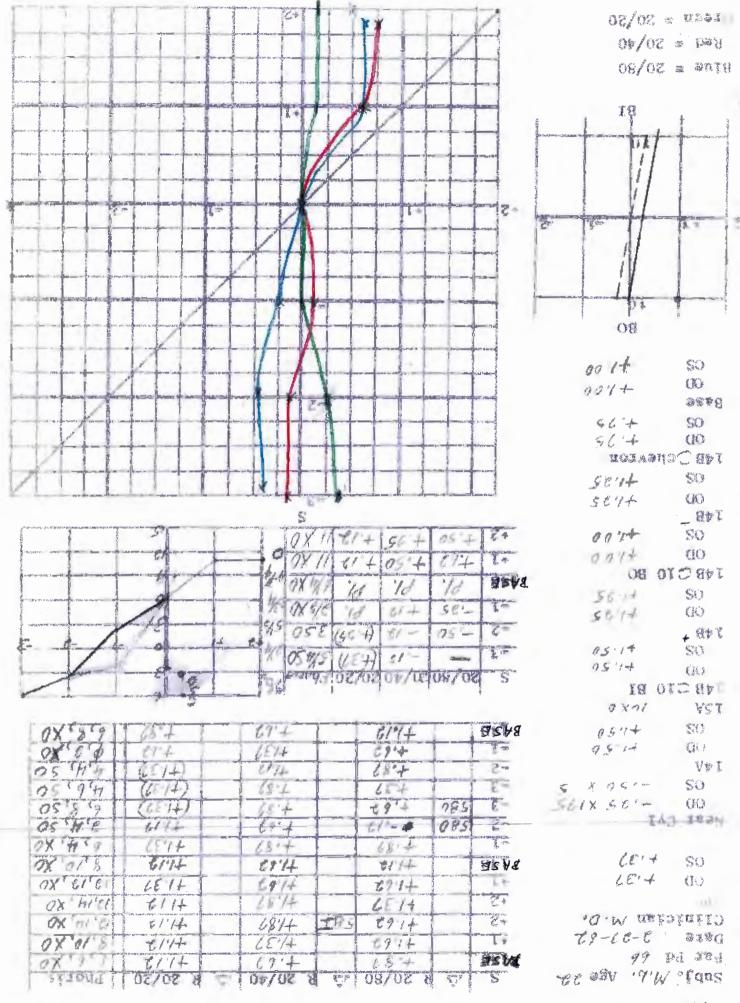
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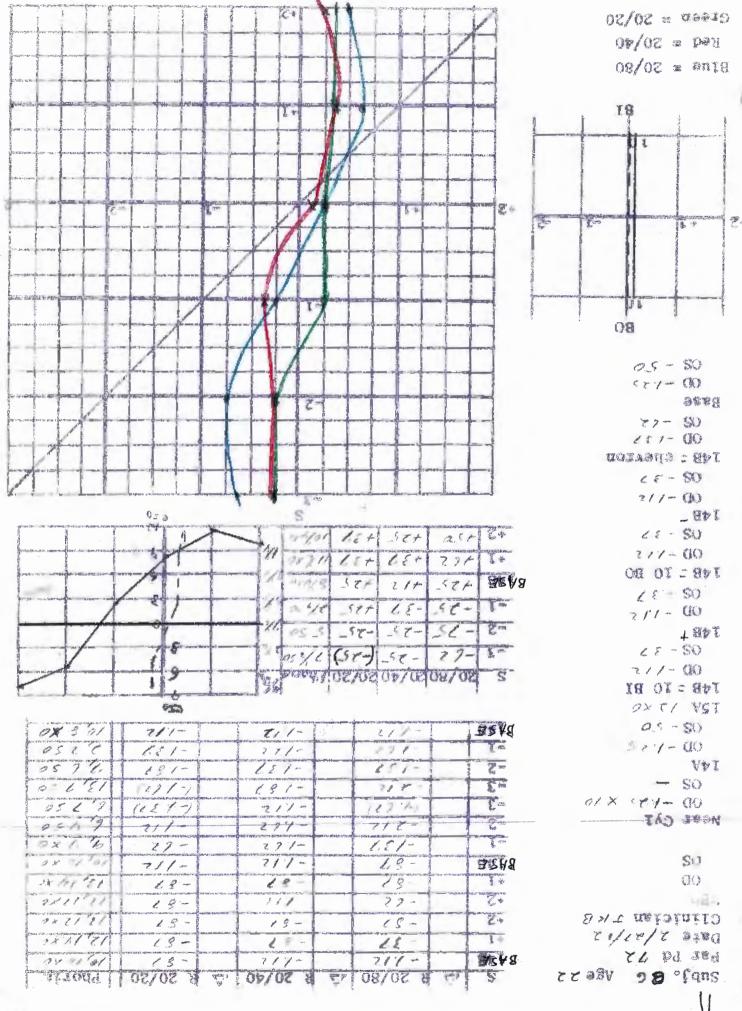


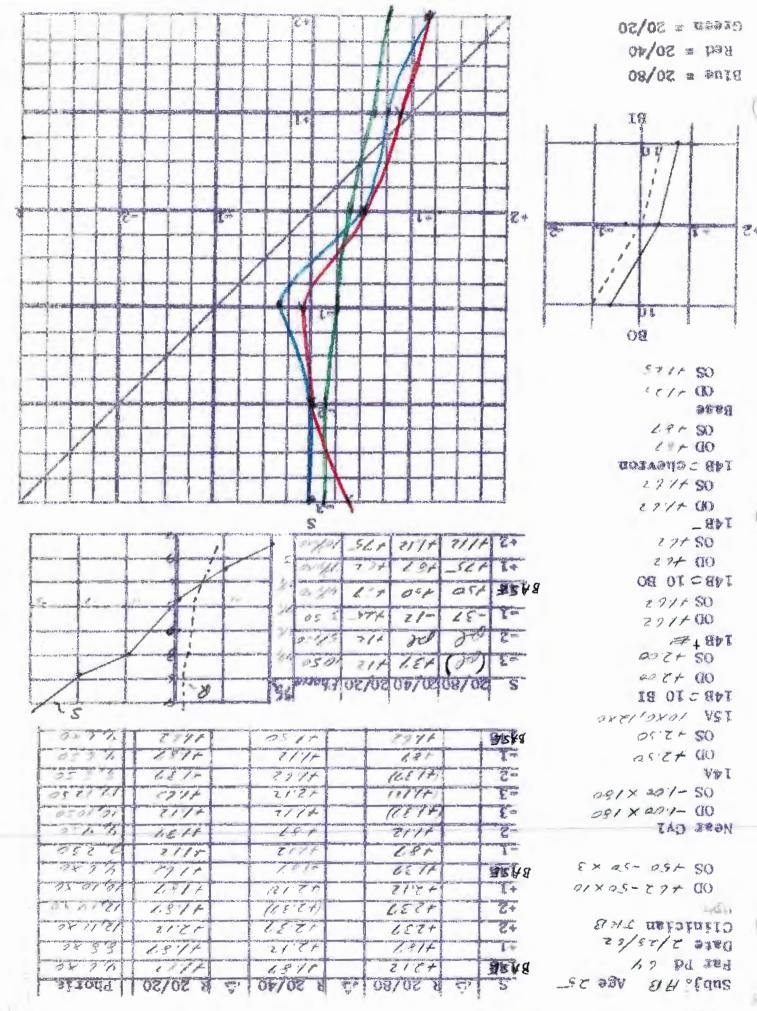


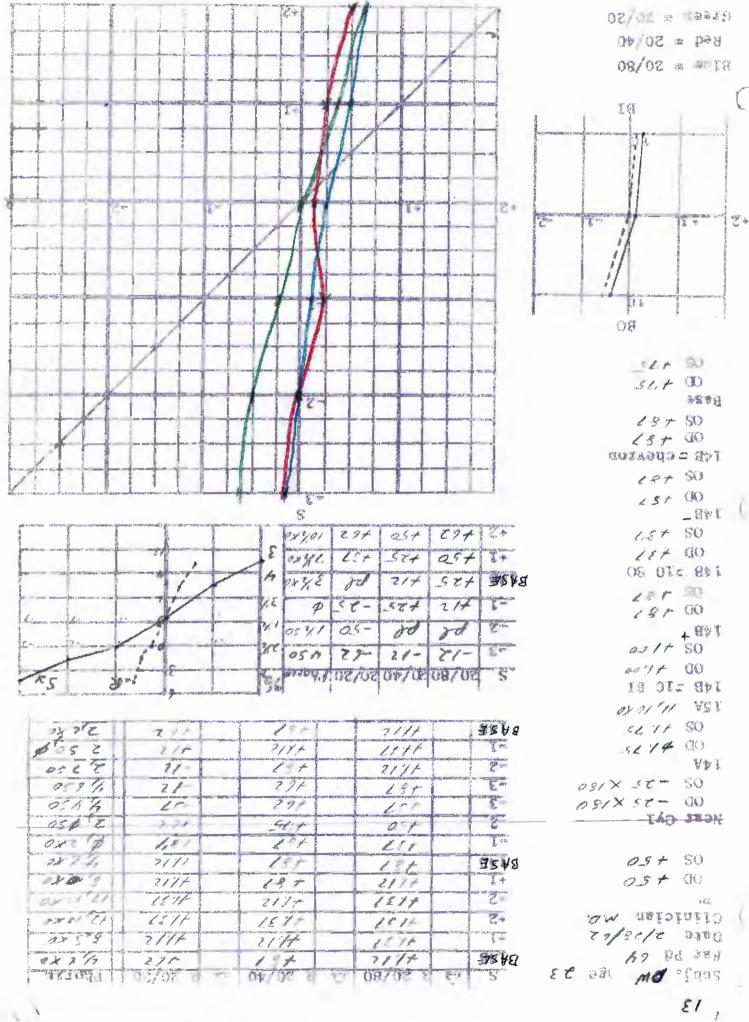


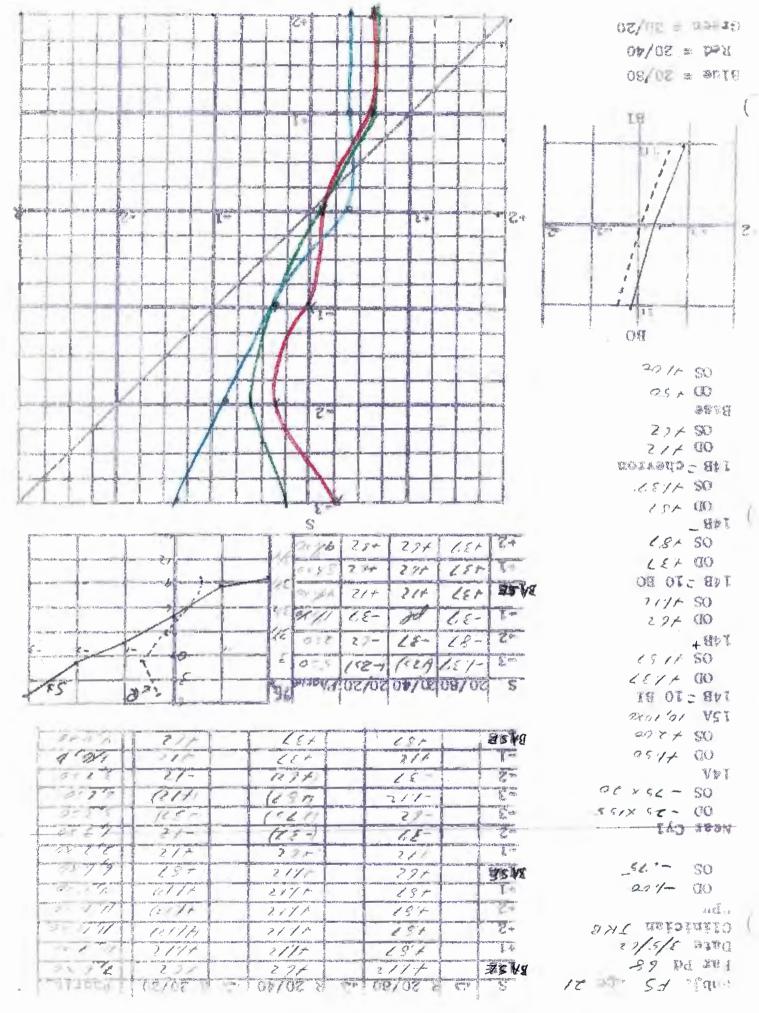


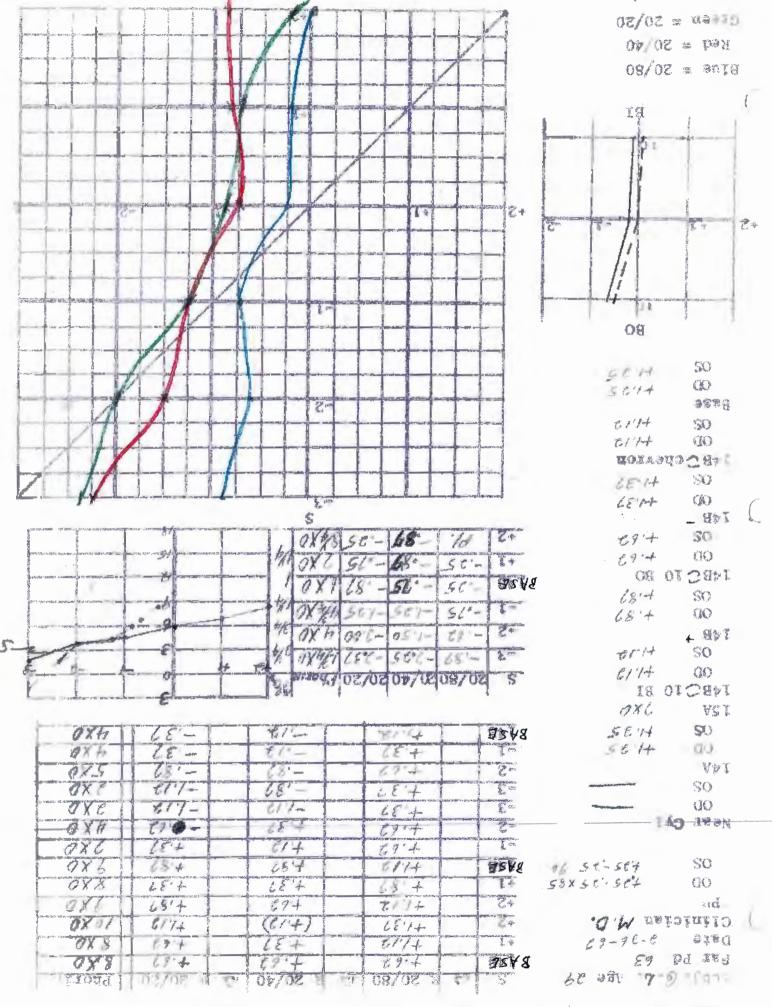


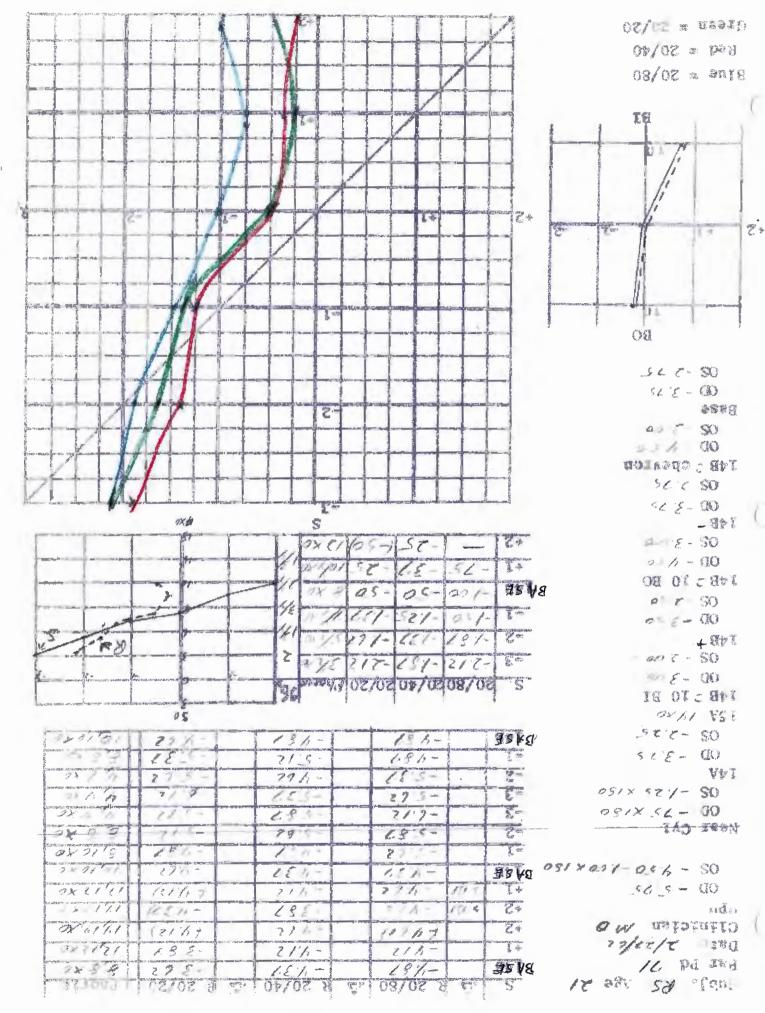


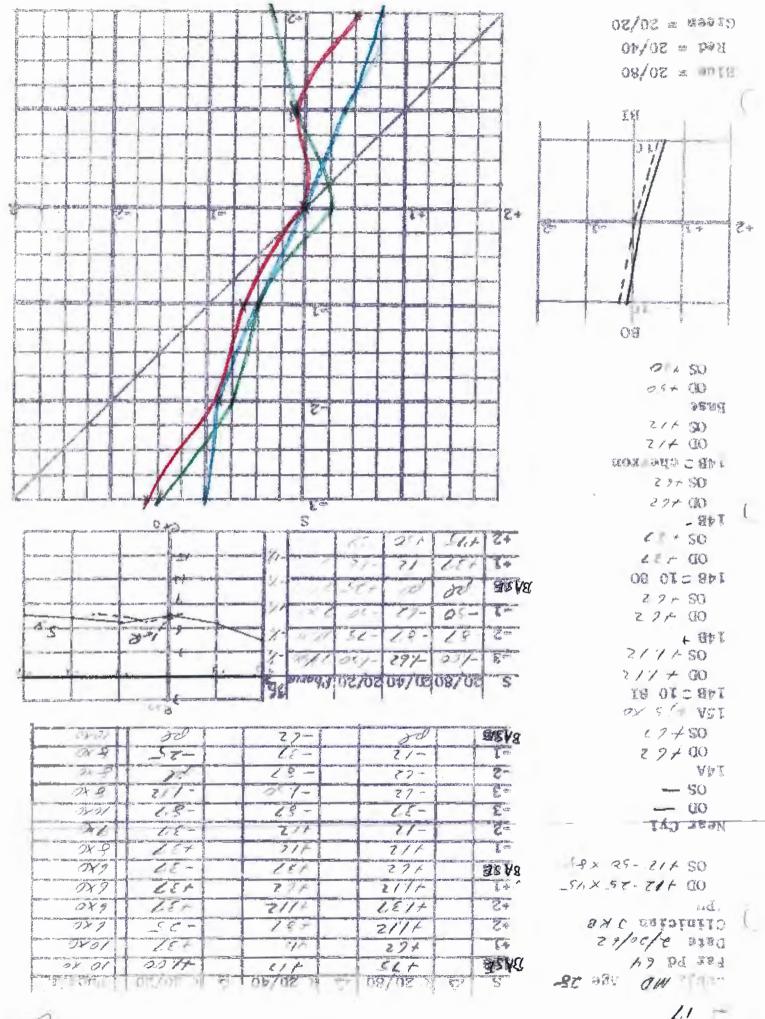




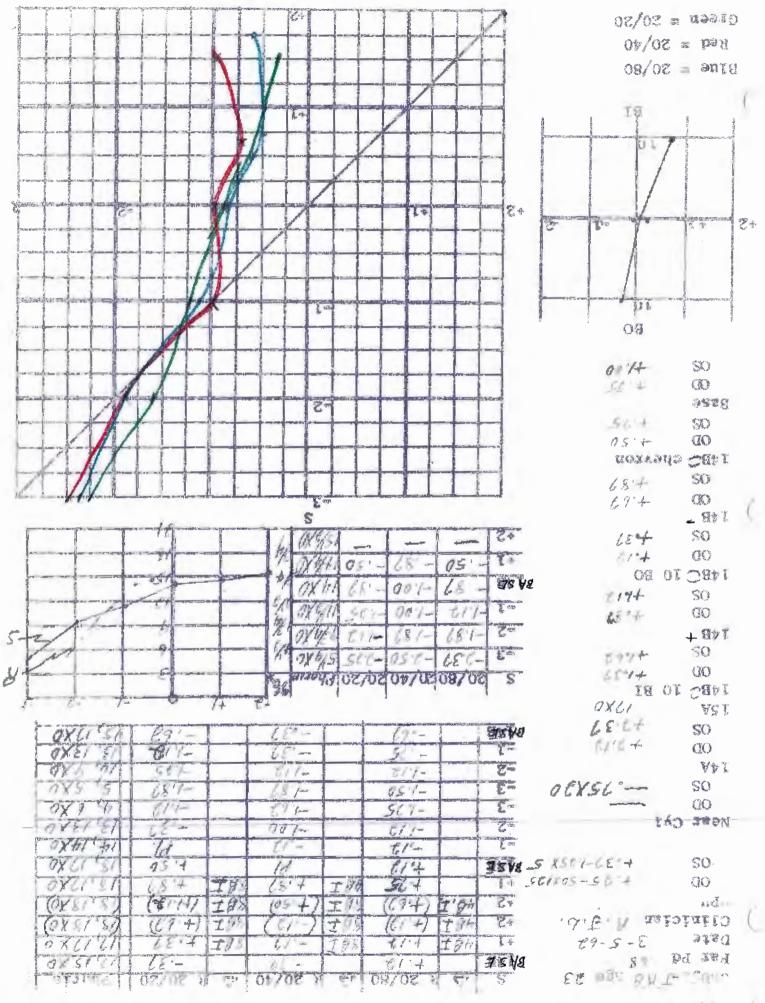








2.1



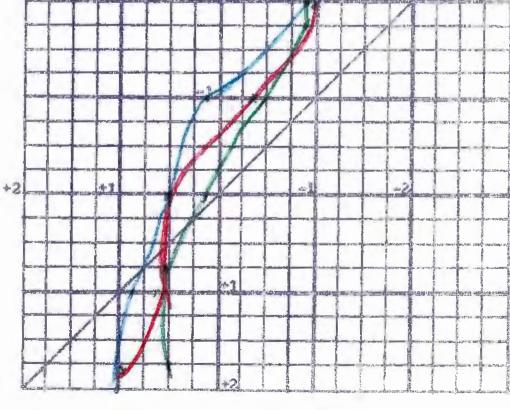
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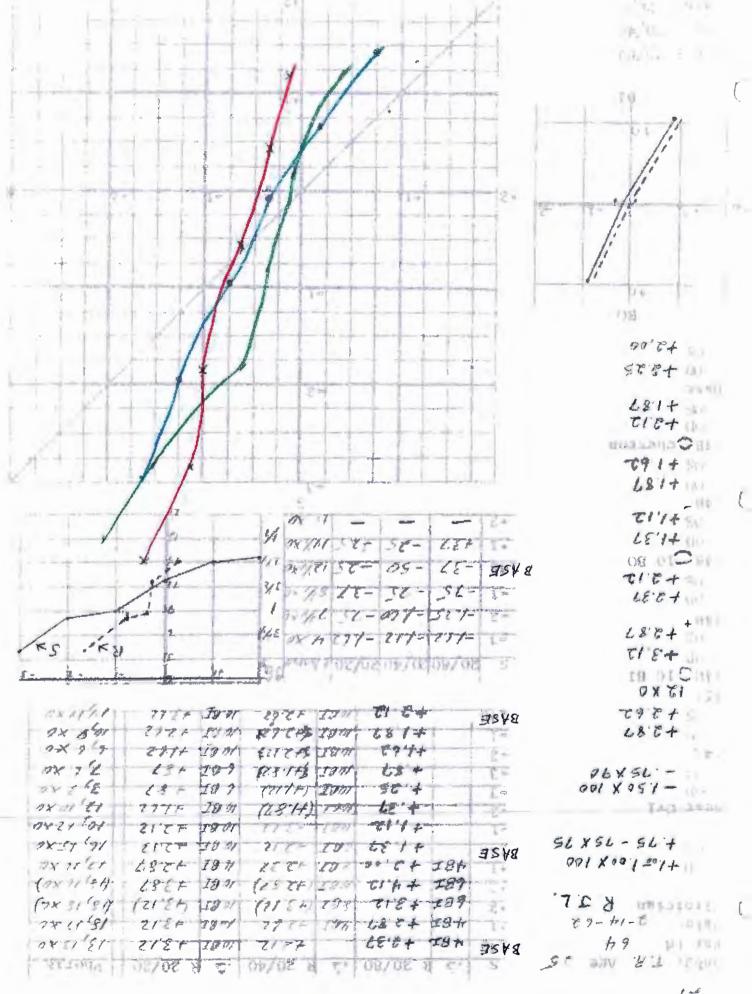
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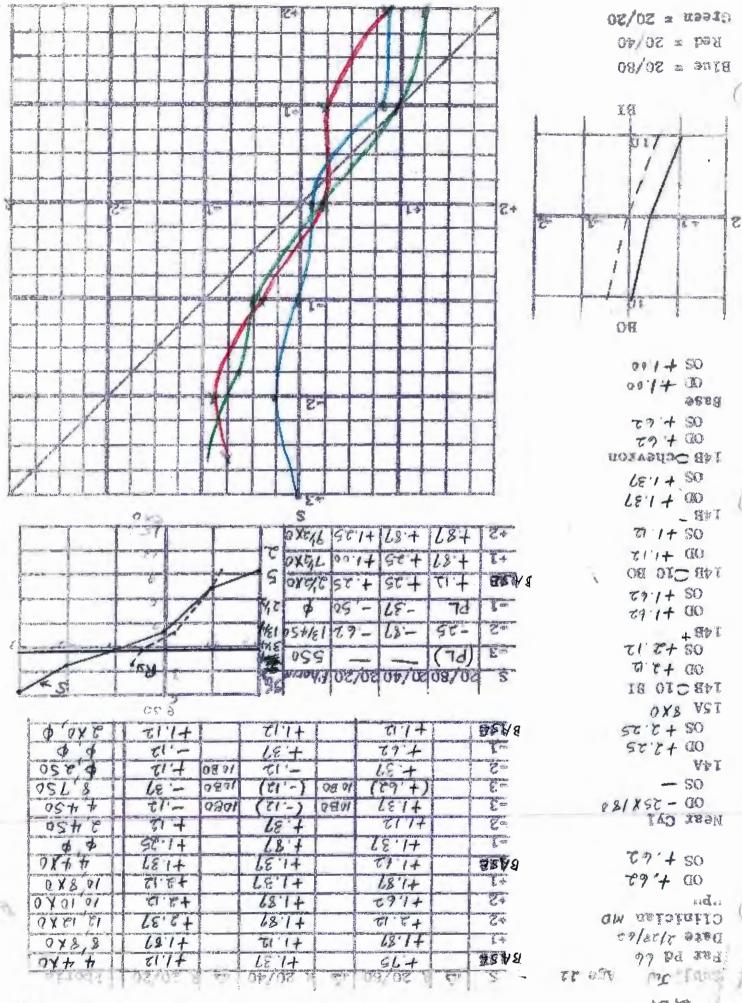
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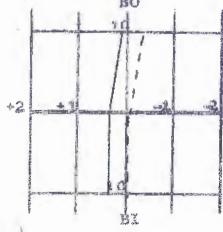




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					Perden			1 1		
				To the second		A	1/1			
		Litternes Filternes								
27		10	Contraction of the last of the							1 1
	lue = 20/80	to the control of the			1	3.0	80.31		1 1	
	1ue = 20/80	to the control of the	operary.				1	- Constant	-	was a series
ue = 20/80		BI	P		A			力		
	Pod = 20/40	BI	SCREEN		1					
ed = 20/40	NEW - SOLOW	to the control of the	Deet. o							
		10		-			1	++	+++	1++
ed = 20/40	NEW - SOLOW	BI 1ue = 20/80	Deet. o							

22										
SubjaRH Age 24	-	1	R 20/80	den 1	20/		R	20/20		0716
the state of the s	BASE		+-87		+1.1:	2	-	1.87	-	6X0
Date 3-5-62	The second second		+1.37		+1.15	2	7	187	10	11 10
Clinician RJL	+2		+1.37		+11:	2	(4.62) 11-	1110
tipie	+2		+1.37		+.8	7	K 7	1.87)	13.	13 Xc
OD -37 -, 25 A90)CL	4. 1		+1.12		+1.12	2		+.62		11X0
OS 37 25 × 90 -4	M 好		+.87	1	+ 3	7	1 7	1,37	7.8	OX
3.7	=1		+.37		37	CANCEL CO.	-	-,37	5.	5 X 0
Near Cyl	-2		62	To a second	- 87		-	162		410
OD -	=3		-1.87		-1.6:	2	-	1.12	THE PERSON NAMED IN COLUMN TWO	210
os —	<u>. 3</u>		- 62		8	7	1-	1.37	12.	2 X O
14A	-2		-, 12		+.13		-	.87		SXE
OD +162	co 1		7.12		+.12		1 +	,12	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU	5×c
os +1.37	BASE		7.62	in the second	+ 37		1	12	THE RESERVE OF THE PERSON NAMED IN	6X0
15A 8X 0	And and supplement	A STATE OF THE PARTY OF THE PAR	MANAGER AND STREET, ST	and the second second second	POR LABORAGE TO	en e	turey -		have pro not	MATTER AND
14B=10 BI			: 1	4	Land	Action and the second	in the state of	and the same of th		elettereter)
OD +1.12	S	0/80	20/40/20	120 84	oria 26		5	7		
	-3	7.00	-2.00 -	2.00 13	42014	No.	-		- 1	
OS + 87	-	112	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	1.50 3%	-				9	
	-62	1	-			-	1	- 2		
00 +1.12	61	50	-,87 -	.87 4.	4KC13		8	100		THE PARTY
os +.87	BASE	PL	-,12 -,	25 61			1	16		
14B 210 BO		+50	+37 F		410			1	-	
op +.62	ARTON		The state of the s	White and the second	CONTRACT	THE REAL PROPERTY.	-	120		
os + 3?	+2	F 62	4.25 (i	1) 16	STATE OF THE PERSON AND	Annual mark to		15		
148					S					
on +1.12				*	3	1		8		
OS + 87					-					
14BCchevron									1	
OD + 6 2				1	1			1		1
os + 37	-	-		-	-	-	-	11		
Base				-	2					
on + .75							1	11		
os +.50							//	17		
3.5	-		+++	++		1/	1	1		
BO	-					1/	11/			
10.				ca '		1	W			
					K 1 -				1	-
	-				TV	1				
1/1					1	1				
1/					1					
42 // -1 -2					A		.1			
42 // -1 -2	÷2_		23				-1		-2	
42 // -1 -3	÷2		φ1				=1		-2	
42 // -1 -3	÷2		61 61						-2	
42 // 41 42	+2		91				<u>-1</u>		2	
	÷2		\$1				_1			
	+2						-1			
a d	+2		2.1		27				22	
a d	*2 <u></u>		g1				_1			
Blue = 20/80	÷2						-1			
a d	*2 <u></u>		21							

do out to o	T 450	**	10	20/80	A	20/40	4	R 20/2	i I ne	Phor	oj e.
Subjo A.	T. Age 28	RANGE	1 mm		1	- Control of the Cont	8		No.		
Par Pd		BATT	HRL	+1.75	. Transper	+1-37		+4.3	7-	10-10	XO
Date 3	3-3-62	47	RAI	- Haydala	SSI	12,11	881	11.8	7	12-12	Xb
Clinicia	an A.J.L.	+2	88I	+2.37	MAR	+2.37	10BE	(+2-	37)	14-14	X.O.
uğu		\$ 2	SAI	+237	MBT	+139	joB I	1+2	27)	14 14	-X-G
OD	+.25	A STATE OF THE STA	4BI	+1,62	SET	1 /2/12	ивт	+18	Jumes 1	and I would	acco Xun Quac
OS	PI.	BASE	HRI	+137	HRT	1.1.62	and the same	- de de	27	11-11	×0
				112		+1.37		1.1	2	8.0	60
Near Cyl	1	- 2		1		+ 3425	Car Francisco	1 0	2	2 0	60
OD Cyl	-,25 X175	CONTRACTOR OF THE PARTY OF THE		TA TA		37	403046362	111	-	2 . 3	K.V
	-,25 X180	The state of the s		-1.10		1 O		and and design		7 6	d A
14A	- INJ KIOU	2					Transfer - No.	- de	1	- Service of the	And Courses
	+1.87	61	-	+ 12		12		- William -		66	Culture .
OD	+1.62	BASE	-	Salar		4-12	2	- wone may when		7 8	X
OS		13/13/65	henous d	mit de la mar	148T	11.26	482	+1-3	7	10-16	Ad
15A	9,9x0 BI						1	Terrestation in the second	e Designation and a	100 Oct 100 Oc	Parker the Later of States
	BI	6	n ton	20/40 20	120 54	76		9			/
OD	+1.87	3-18	MALOU	aven au	6011	197.10	-/	3	-/	1	
OS	+1.62	3	-157	-1756	160/2	4×43				-	A. A.
14B +		62	1 26	-1 40 -1	2.5	8 24			-		
OD	+1.12		Products.	1134	-	13		_			
OS	+0.87	-1	-87	-50 -	1.07	10		74	-	-	Service advisory
14B 2 10		BASE	A	Pl i	21 9	well !					- Armanya dang
		+1	125	732	20	her		1			
	+.87		-	and the second second	-	13		18			
OS	+.67	*21	To spin the straight had a second	Activities and the second	-	LACE TO		Market No.	!	Stranger of the second	or consiste his
4B -	. 0				0	2					
OD	+1.12	Tomas and		TT	T				1 11		
OS	+.87	COLUMN PAR							11/		-
1.4BC che	ealou							1 V	//		
OD	+1.12	Martsaul			11			IV			The same
OS	+.87		-		-				-		
Base					-	2					
CD	41250		+					1	/		The state of the s
OS	+1.25				1				1		-
					-			41-1	-		
	BO .						/	11			
1.1					6	1	1 /	AT			
	1.0	-	The spinster of the last			-		-	-	The same	-
	1/1				-		1/1				
	1/1				11				-		
	V'					1/18		11			-
4.2	// 42	2	-		-	VA A	+	-			
	//	+2	-	+1			a1		-2		
1	//			THE REAL PROPERTY.		11/					
	//		I I I I I I I I I I I I I I I I I I I	marine Carrante Contract	1		1				
1 /		-		-	- American				-		
	40										
5 E 11 M	1- 1			11/							Carlo Maria
- 17	BI	Access of the last	A SHAPE BEING	The same of the sa		->1	-		un carrie	SECULAR SER	
- SPEEDS		4			10	R I			1		
- A Rights		1								The second second	THE RESERVE
lue = 20	0/80		1			111					
lue = 20			X		*						
lue = 20 Red = 20 reen = 1	0/40		1								

27
Subj. KA Age 27
Far Pd 66
Date 3/2/62
Clinician RJL
4 E
0D -125 -50 x1/3
os -139 - 50 × 173
Near Cyl
00 -50 x/30
OS -1.00 ×15
144
OD +37
OS +62
15A 6,6 XO
14B = 10 BI
OD 4/2

OS +37

OD -/2 OS -/2 14B = 10 BO OD -87 OS -62

OD -62 OS -37 16B = chevron OD -87 OS -62

> OD -50 OS -25

141

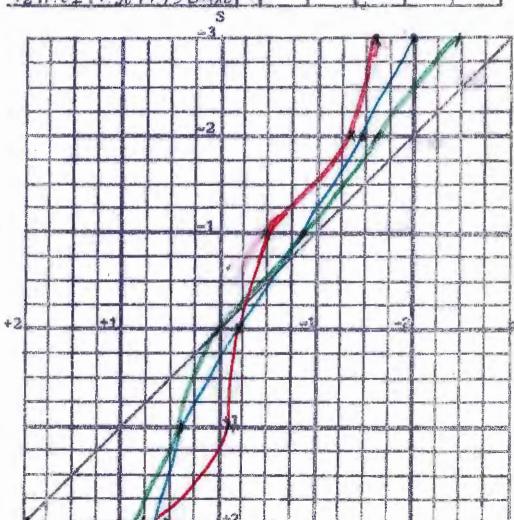
1487

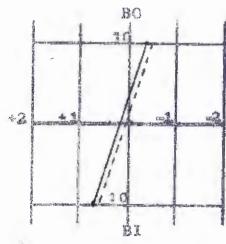
Base

en angricamenten en e	13	08/05 %	deb	20/40	- Eufli	8 20/20	l Plus File
BASE		-57		-1.12		- 37	p p
ob J		-/2		-1.12		12	3:3XC
+2	A TOWNSON THE PARTY NAMED IN COLUMN	412		-/2		+ 37	16.6x0
+2		+12		412		+.12	6-6-50
+1	1-1414	~/2	d. Jane	-/2		- 12	2.3xc
BROK		-62		-/2		- 37	1-1X0
= 1		-//2		-62		-1.12	2.254
-2		-1.62		-162		-187	4-450
-3	anna sinne alancista.	-2.37		-2.12		-287	2-250
OR THE PROPERTY AND ADDRESS.	OTHER COMPANY AND A TOTAL OF	-2.62		-212		-312	1.7.550
2		-2.37		-2.12		-2.37	3-250
01	11/10/22	-1.67	Annual Control of Control of Control	1.37		- 1 Line 2	1 4 - 4
B用黑客		- 81	and the second	- 87	become or wear office	62	2 340

S	20/80	20/40	20/20	Ebaria.	76					e meeter een maarig
3	-1.00	-1.62	-250	5456	034					1
- 2	-1.50	-1.37	-1.62	24150	3					
AND THE PROPERTY OF	- 87	50	37	150	2	- 11			-	1
BASE	25	- 25	PL	1.80	14		-			
+1	+ 37	- 12	+37	23x0	3					
+2	+.67	+.50	+75	5410	4			lete a	Epainama.	

 1	





Blue = 20/80Red = 20/40Green * 20/20

