Uznepenne rybemburenswami A A R = x = x = x = 2. \(\frac{x}{2. \text{Uz} \cdot \text{Ug}} \), rge 1 of - rybembuneus weems ocymorpagoa X- quina empezua na supane 4 lg-genembysousee nangemettue nousopa Se sipologium unoroupamente upravore uzrepe H hue ged x u ug <x> = X1 + ... + Xn < 2</p>< 4</p>< 4</p>< 4</p> < x> = < x> ( nochembre uznepenne) Marigere afcarromnyo rospermoent usuepe SR = 18 => AR = <8> 58 SX = \( \frac{2}{3\text{N}} | \Delta \times | = AX + Alig

1x- norpeulocomo uzure penue quenos (quenue umanon) slig-zabueum om macca monnocme sug = (%). Ugbc, rge ligbe-mane. znareune uzuepenne nappemenne THE S CAS. ( TX> + Prof.) 8 = < 4> + VH = < 4> + < 4> ( (x> \ 7 x \ 7 x \ 7 x \ 8) repe R = < x> + < x> + < x> + \( \times \) Ux ( ) = A coswt , Uy = B cos (w + 5c) ly(b) > B cosut enne) My = cosut ruepe- ut = arcos(4) + Fi + 2 Tik te ar cos( by) te arccos(x) => y = B. cos(marccos(x)) = = B. cos (arccos x) = B. x = B.x

10000 x(t) = A cos wt y(t)= B cos (w+ + JC) wt = arccos + + 2 Juk y = B cos (arccos x + 2 Tile + Ti) z B cos (arccos & TT) 2 - B cos (arcos) 2 - B X y = B Ecos (arccos + D) z B sin (arccos) 2 B. 81- 427

y=Bcos(w+E+JL) 2 BsinwE x z A cos (wt) yz B. Lgut.x y = B. 1- x2 y2 + x2 = B2 sin2 mt + A2 cos2 mt SA)= Dipomorene. ladopamopues pedona 117 Deymorpago dipudopir u odopygobanue: renepamop aus hadab muzuorae momulati 13-109, ocymbo-Lago dieunpounour Onpegenenne Berenrumen rybember mentitocome beponentonos u ropuzoum nomanol

| 4- Kanan         | u, B     | 9.103   | 12.10      | 15.103 | haxamauna                               | (ocuad   |
|------------------|----------|---------|------------|--------|---|----------|
| no X-min         | h, du    | 30      | 38         | 50     | quarenne<br>micaus, B                   | ocuadiem |
| no 4-max         | H, uem   | 1182    | 1123       | 1182   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2000     |
|                  | Hap, min | 1162,   | 2± 94,428  | 3.2    | 15-103                                  | 8 -      |
| -kanay           | u,e      | 9,3     | 1,2        | 1.5    | hancumantinae                           | 2 8 19   |
| curence to 4-min | b, um    | 43      | 28         | 13     | quarenne<br>vucann, B                   | r rempa  |
| no X-Max         | H, me    | 16, 94  | 12,14      | 13,26  |   | mapa     |
|                  | Map; me  | 13,14 = | £ 1,118 38 | 5      | 1.5                                     | 123      |

azyrenne pasono parbepnice. fpaybepronu = 120 ry n 21 1 curnama 120 54 m = 12 farnana 60 Fy  $\frac{n}{m} = 2$ furnana 240 54

emm 1 = 3 a cumer ryeom furnarea = arrich 80 Fy Sipu npay 5 3 23 bupa funcaia n/m 80 Fy Cook ausponuzayun nou azmentine racmoner rempamapa fe ≥nfp ocumorpainna German fe & nfp œumorpamua demum > Jipu le > nsp repuse curnaire neueure. чене разверении, поэтому на осущоран me repopues birba emed yevour repug c Kanen mo cregionstee mycommon, le no mepe uponornaemen bygem nazamoen

una curan glumence brebo announellosso supara, nomany romo man yearen ormande 6 mon rapmine, 4 arman emecmina buebo Jipu le & fp rpoussogum oбратный процесе, и осимопрания бетим bupalo 11/m euseseponeza -sf, Fy + 18, 14 /19, 14 yeur, gen 5 m =1 9 10 mpygno mpyguo 3 2 m 22 9 nonpalume

|          | asenumo u     | vaualla  | yeune     | w        |
|----------|---------------|--|-----------|----------|
|          | waits www     | THE RESERVE TO THE PERSON OF T |           | -        |
| Yamenne  | 11 14 28 15   |  |           | 7        |
|          | u. B          | 3  | 4         | S        |
| 5        | h, me         | 56   | 36        | 92       |
|          | u, B          | 3  | 9         | S        |
| 6        | h, ann        | 62   | 82        | 102      |
|          | u, e          | 3  | 4         | S        |
| 3        | h, au         | 68   | 88        | 110      |
|          | Oyenka n      | aemanu   | use       |          |
| e        | bottomb 1     | Sepnuca  | usuoro    |          |
|          | you           | mene   |           |          |
|          |               |  |           |          |
|          | 2.102 1.103 2 | 1-103  | 2-104 1.1 | 05 2.105 |
| h, um 40 | 40 40         | 40 38  | 34 16     | 13       |
|          |               |  |           |          |
|          |               |  |           |          |
|          |               |  |           |          |

Bury per luccarny net n=2 n = 3 08.09.16 Arz

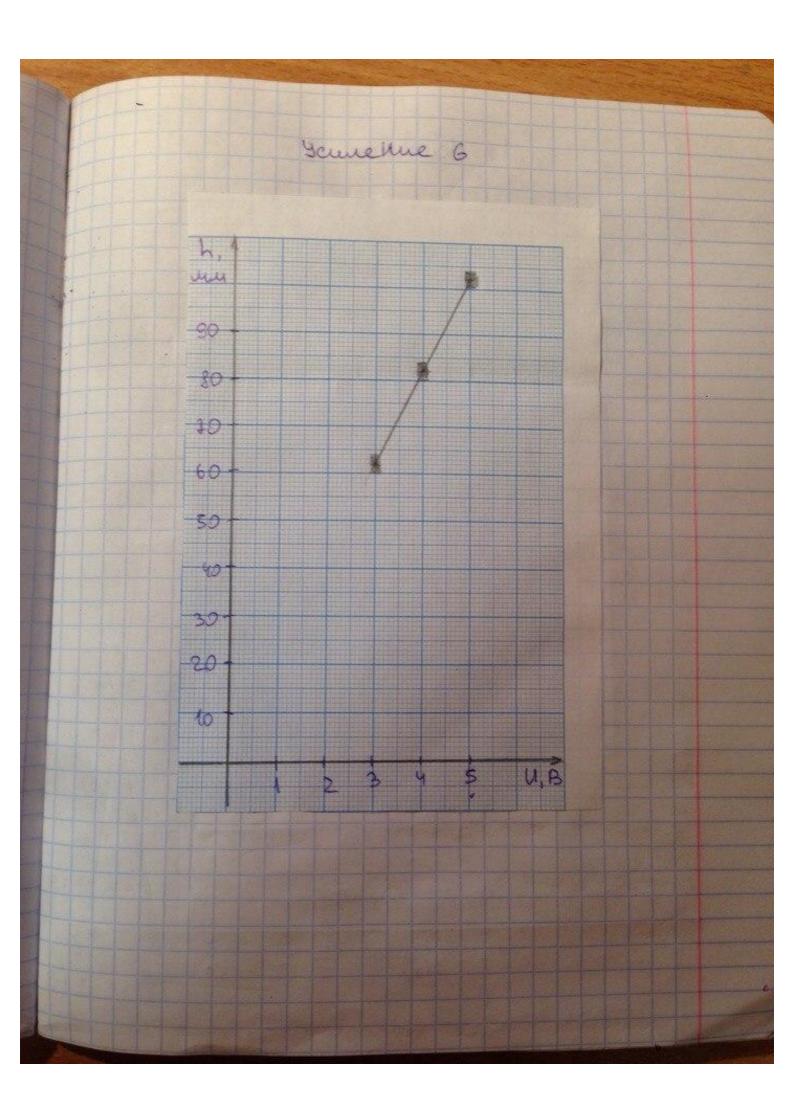
Onpegerenne benerumen rybenbunenousener bepnuraus пого и горизонтаньного кананов y- wanan 14 = Ume (%) % =0,025 Um = 15. 153 B AU = 15.10 B.0,025 = 375.10 B Abz 2 um AU = < U> = 11+42+43 °/0 2 <u>
(3+12+15).10³B = 12-10³B Ume Zh > 2 hithz tha s Ua Ah = ch> = 30+mm + 38mm + 50mm c 43 = 39, 33mm < x> = < h> < h> < Lu> 2 H > 2 \_ 39, 33 my H. = 1,1622-10 A = 21/6228 2.1,41.12.103 B C 38

88 = 2h + DU | SX = AX AX = < R> ( Ab + AU ) DX = 11.62,2 mm ( 2 mm + 375.106 B) = = 1162/2 tule (0,05+0,03125) = 34,42825 tule Rat < H > = A H 8 = 1162, 2 duin + 34, 42875 dun 11 = 1128 = 1182 B, 82 = 1123 mm, H3 = 1182 mm AU = Um (%) 1/0 = 0,025 Uma 2 1,5 B AUZ1,5B.0,025 = 37,5.103B Ah = 2 day (U) 2 9,9B+12B+115B = 1,2B 2 h > 2 43 lun + 58 min + 73 min = 98 duly H1 = 16, 34 mm 3 x2 = 12, 14 mm B, X3 = 12, 26 B ( 8 > = 58 mm = 17, 14 mm

SX== Ah + OU =UX 18 = < R> (Ah) + QU) 18 = 19, 14 mg (0,034 + 0,03125) = 1,118385 mg x = 19,14 ma \$ 1,118385 mer lizyrenne pasomos paybepnien m =1 farmana = 120 54 m = 1/2 formana = 120 14

furnala e 120 Fy m = 3 farmana= 120 54 7 2 34 farmana = 120 Ty Jupu de znop na ocymno ipa que repopulabre barmer yeura reprog es cregipousur vychou, roomony namence, roo ocqueorpainina glimenex buebo. Jou te & nfp nomubonaronmas anawor unas

amyayul Oyeumb mineriocomb вертинанного напана Gamenne 5 the 100-10-60-**56** 50 UB



Osema raemonnosa chotiant bepruisant no so 19 62 910 1910 19105 49 F Puryper hecamy n=1 x = A cos (wt) 42 B cos (w++4) 4 = B.X y= - B.x 3) 4 = 5

T2 + 9 = -B n=2 x = A cos (wit) W1 = 2 y = B cos (wet+4) cos (2 w t) \$ = cos (wb + eq) sin (" t + e/"), a = sin("t) = 2 sin wt cos ef + cos wt sing = sin (2wt+eq2); = sinwt = sinzw cosepe + cosewt sinepe

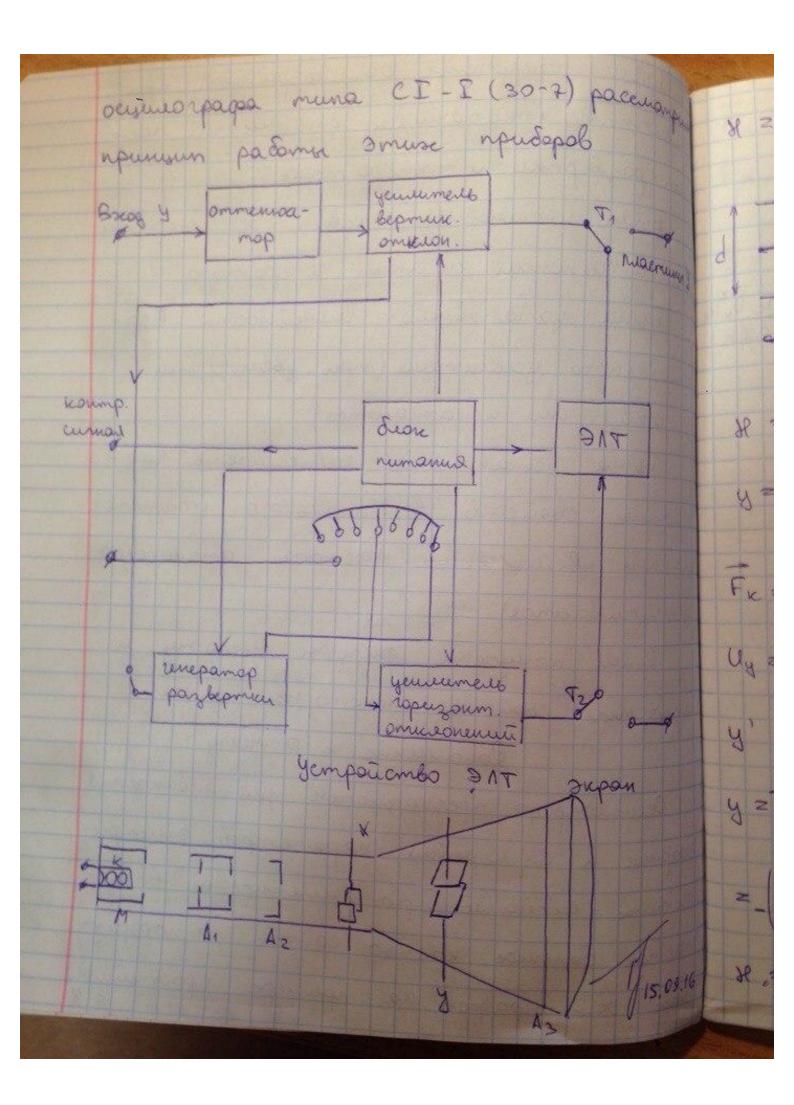
X = 23:nwt coswt cose/2+ (cos2wt-sin2wt)sine/2 x = 2 / B - coswt cos e/2 + (cos = wt - y2 ) sine/2 4220 x = 2y cos wt essut = sin (wt+ ) = sinuteos = + essutsing X = 2 struct cosut coseq = + (1-2sin2wt) sineq2 X = 24 11- 42 cose12 + (1- 2 42) sine/2 9220 , X 2 x) , & 2 y) x'= 24' 51-(4')2' elze Ji x'= -24' J1-41/2 l/2 = € ; x' = 1 - 2/y'|2 - na pa doua

n=3n=4 AP 11 renepamapa Alep = 18/1-18/2 fp = 120 Ty

| n/m               | aunumyga<br>cunxponusayan<br>garenne | -01, 10                  | + ot ' L' | Afep, Ty |  |
|-------------------|--------------------------------------|--------------------------|-----------|----------|--|
| C)E = 1           | 2                                    | -8                       | 10        | 9        |  |
|                   | 3                                    | - 10                     | 14        | 12       |  |
| 2 2               | 2                                    | mpygno -                 | mpy guo   | 2        |  |
|                   | 9                                    | mpygno -2                | mpyguo    | 2        |  |
| $\frac{n}{m} = 2$ | 2                                    | -10                      | 10        | 10       |  |
|                   | 3                                    | -15                      | 30        | 22,5     |  |
|                   |                                      | <u>C</u> <sub>m</sub> =1 |           |          |  |
| Alup 2            | 1-411-1                              | unum                     | ga z      |          |  |
| Afcp z            | 8+10/1/4                             | = 3F4                    |           |          |  |
| 14cp 2            | 10+14) Ty                            | emeeny<br>= 12 Fy        | ga 9      |          |  |
|                   |                                      |                          |           |          |  |
|                   |                                      |                          |           |          |  |

T = 2 Lunuaryga 2 Afop = (2+2) [4 = 22 [4 Lunumyga 9 1 fcp = (2+2) Fy = 2 Fy npe £ = 2 hunumyga 2 you 154 = (10+10) F4 = 10 Fg chununyga 9 Afcp = (30+151 /4 = 22,5 /4 yle Burbog: Tomo uzyreno yampaiambo ocumorpaga, ero paziurnoise Euscab George yemanobremo Cisegnoque scapaure puemum; 1) rybembureno useono y- nanana X = 1162,2 B ± 34,4 2875 B 2) rybembureus noems X - kanana 8 = 12,14 me £ 1,118385 me

Tomen noveyneur ocumorpamen non размичнове поназанием отношений пасmom pazbepriku u renepamopa Tomer yemanobrenor cabrin ocumorpaning no uzurenemme na emom remepa mopa Toma yonanobuena unemoemo bepnumantinoso ycumumene (non ybeninemia yeurenend once ucua maiomae) Toma yemanobuena zabuemmoemo rac momnose aboutant Beprincarenso youruneud upu ybeneurenne racmomer ammobiline yberwrubaernes) Town nougreno querypor luccarry a uzyrener chariconha nenomapuse uz unse. Ronainenne « omremy Deymorpago npegnaznaren gine nadiogenne формы и измерение параметров эменетриrecruse armanob. Tronumentemoemo buryenoemas Sousmoe kon- 60 camerse pagnoofpasvous ocumorpagoob ha nouvere nocomentumos



2d UAZ d ~ v 18 8 = Uomey y= y'+ (+2+4) ly Frz E. që = Uge = më ay = > ay = Uge. Uy = ayte, Le= Li => Uy = Uge. Li y = a te = u qe. Li 2d.m. U2 y = ( U ge · Li + (L2 - L1 ) Uge Li ) = Uge (L12 + 2L1L2 + L1) | = [ 2d.m 02 H= | V ge 2 Litz | = | Qe 2 Litz | = | Qe Litz | 2 | Qe Litz | dometh