## VITAL, HAYYIM,

 permission of JTS.טל, חיים,

## ETS HA-HAYYIM.

עץ החיים.

## SEFER ETS HA-HAYYIM.

עץ החיים.

ALTONA, GERMANY: 1734 ASHKENAZIC SCRIPT

## 



## 

הספר 2thopoymy yentin.







 1.20
 so for hatoger myanger yato
 80 ming






 TMTOT





















## 

Cunanaw *y fromo

 mancri*
 simacentandiby pyent





H.









 (







Thise


















 arlytary










7 (annoviry






arisusindyting
A Noumphatin
suluranayita.
liduriantryty








Na!






***+ Anvtinn Sadies







路 25




 duthar +


 Sernarm

 TNK1
$\pi$







 +hly


 Su 1

 Gramane $x^{2}$ d
 to







```
cydmpungu mecy >
lomeryymury a
```



```
myug+tatym
Su2fopmenert
x+ra!monywre
```



```
$lmancergac* . . . 
```

atuly mank mas
Buchan


$042+1 x^{2}+10$
fothyamp





$x=$ ay mants


## ,

--



 Nincity
 puningm

4.4ntich
a woryars

diverna:
obmintion


- cormordery
- whely
omindioncoles:
iadisntime $x$
annaing mex
Find youth
 - rc
rin
4textion





 O. . 1 . Ahern $\because 1,1$, $\because 1 / 2$
 -4anon


コ"





bionting 5


Thater
cion $\cos ^{2 r}-$
angotmsis:
mNN
4 cuntexym

P. x 4


bayyy y
bine 0


Jilla and la/n matam quan

Song as hanisy $\cos$;
Nadeuin moty







## 2







Nixucers
ablaymy.

yatyynowrict
Notyon
" 54.349
inpritution
3o Jingityin?
nixnsencma

ans: pbraytur


$-2$
T.

$$
h o x+\cos x
$$

f pugerigendry

Io pratinanycior

## yh of inthingiry inem

jhation ar a



末








10




inikemarin Mrat




 ини"
240


 finemment $2 \sum^{2}$


iv



 findong

puntorepry
ring ingmes．


Binturn


andurn
potopis．

ph stap
－minp dey：
盆地别
3 3 moter
jrationgint
obolyerns
neadymin．
ans
pyishotrys，





lis．



fuy

$6{ }^{2}$
2nint
Angher $t$.
4ngutyime.
rider ${ }^{2}$
Nin 5 , Ams
3nting

al kitater
fioditurets


$\left\{\begin{array}{l}\text { ming } \\ \text { und }\end{array}\right.$
Mapurial rict
inn


 atonpe




- 210121


f










## 49







tor

$P^{+}+3 x^{2}+2+m$


$$
\int_{r \mid x}^{\prime \prime} y_{n}^{\prime \prime}
$$

filurest

ixayingman.
pandind mint x ,
pindex $x$

Anform 4


$$
\therefore
$$

$$
0
$$


a






tremern ir

$+\infty \times 1 \times \cos$ $\cdots$-rivens
8
$x$
$x+0$
$x$
$\cdots 2+1 x^{2}$

intuinlualdray
jivmuratan m
anmintornaty
abytict
chat ch Mrir
an'yMer



 R dey
fis
ariturara

1



numak
$\rightarrow$ dismoryt

; THACt.
patyint.
त
paritac $i$
ancicym.
puja miman e
1resides
puvisising


phemenc
anpury




 1100 .



35






moremes
v *.
3
4
she
nis
Atheromicios


surnex
Noty
anikect

atonimite:


s10p wivereme
mandyent

pratranamos.
3, nationt

nfatreserns.
pasos anymer:

pudermand
qumbinats $x$.







- Hy
 nulv




A" tion ormings
byt


$$
\begin{array}{r}
\cdots m=m+1 \\
1+y^{2}
\end{array}
$$

inimes




$$
\operatorname{mog} 9
$$

$$
+i
$$

Mingen

noak
pary
-gern xom
$-$
jusexyor
sine mand -
pur)

pinonjur yours.
nisely
$\rightarrow \operatorname{mon} \operatorname{con}$


Melacsumer

$\therefore$ : canpduredumarlo.
Madeumiviseonemot
? ${ }^{n}$ whand


maxprypury



 A"


menkyy
onimity
mix $x^{2}$ and
ar rinision
$2 \min ^{2} \mathrm{~m}$ mity
Cuydyyyyy
veris


dixym Kalozancinis
athpamor
jastaniuabu
Pluybyyyy

jighdyaty rex





 - poys





```
uppuns:matames
yapmycrec:m.m
```


minn

donn



~iphatid:

rimpors
0.
4) mo
${ }_{6}{ }_{6}$
posicy
ar mis
DYopinger
anmairem

sfunemanemix:
investrm
Dprimerancor
N $x^{4}$ pand
站 ${ }^{2}$ (anyyyy
20angorntror

Alx+jurn 4





ram

72







pyot
0 moxamor

enner
Tingorby
apapountion
20

iupunay
parpupubarion



no ixarcient

















## -


 - tration dos
*
s. - oreve iod







chation payp
jaty


- manympaty
$0 x^{2}+x x^{2}{ }^{2}$
- 130 Ca a
$\rightarrow$ -




3 ,
0








$$
\begin{aligned}
& \text { Nixamityerer cor } \\
& \text { Kong divis. } \\
& \text { Sing } 2
\end{aligned}
$$

13
 ar asex:
 pompind dond co

min in ximer

pankiver
prumation


Dpy
in peder 5
a puotery

roxpleition ?



Jason.pantivy


pilitompyenged स)




*.
 $\because$ curniti $x-2 j$ j $p \operatorname{sen} x$
 * * Ning sman ranklo
 An





## פרק שׂ

~ntannuip.
c : "N'






3onation minetyty
 $\theta^{2} j^{x} \times \mathrm{m}$ hublathais


2 anavery
bratary $x+m$
beforcicy

fykn juntar
and kos in math














## In













nabincor?


ontsithors

$\rightarrow$ andoparymor
funmurnays.

i ${ }^{2}$ 4 4.







 ctentry $x^{2}$




 as anduan





$\therefore$ cremprampros
 - crethea-numas pignpabiving ity



 U
天.












for
Whent
hogat
Apsigytions

juifiphana 4
$\rightarrow \sin +2 x$
didinerex
andyayy


jo daving and
Ho









## כט

пй







yemedratsor




ongmydyy
$x 5050184$
annastinn



amab coce
and houry. 4

Shinginde.

$(.25)^{2}$ anity





 His
 she $x_{r}$

minnex
$x+2{ }^{2}$ /himetros

raras ax and

hendrymis


$\because$ Frivany

 -17: $\mathrm{CH}^{6}$

cy ${ }^{2}+0^{2}$ ?

$$
\begin{aligned}
& x \\
& \% \\
& \%
\end{aligned}
$$











 ralnal

## CO









 उ

(n) nban


## 5075 COY M



 Cin $n$ nos




1 p+bygmap+mx




(na $x \cdot \beta)$ munery
















 Pex rinaposinger

 an Un mpl? $5 \times x \sin$ ation Menviphaici Ca 4 Pa

$$
\%
$$ ilbeppurm am: fulitionno apsom many no koseryen for Hancy


$14 . \mathrm{ms}$ a c

aray

apyon 3ndanay

2
2
2
2



nanuxioniva
$+5$
in


$\cdots$





2
2

- Merinasy ymas



anderifng prsa tive

 71 ithatiouy

 - y+ $\boldsymbol{c}^{4} \cos ^{2} \sin$

 $\rightarrow-x^{2}+y^{2}$ All ${ }^{2}$ Q 5 form man monner
 apais in ing cory $\therefore$ ix frusimint:

 ynni wim $\operatorname{rax}^{2}+4$
 L. 20 yrun pannk

 ans

## 3


品







$20 \cdot 4045$
2 种 280 and


- Thendand
- $x^{2}+\operatorname{chs}^{2} 20$
wimphigifores.

$$
x^{2 y y o n}
$$

dato

$$
\text { apixin } \quad \text { und }
$$

$$
1 \text { fix jusenind }
$$

oppongovitu.
Aplong der
swonding
xintith
Nrxpisex a

$$
\begin{aligned}
& 30 \text { annonnix }
\end{aligned}
$$

$$
\begin{aligned}
& \text { yningolmisimy. }
\end{aligned}
$$







 ynall

 cestepemparanduany 2.

 - Mertery panciunnaty
 5man (4) 7 , : Nuxyming (0) rean
 $r y+5$ *) Kigisman $\cos ^{2} n$ Fybumandazu at gnatrotasion KA Anky sualium


 do reyng cais
 a laminh dict nnkn Ktor
 A位







## Prres \% $\%$



迷多


 trax Mannus im:



Tumation
pumaliperes.
pisporycy
and nither

5












 Sinnsming inst

Seren




Pata ingipition
niliatiotes

- ow bindex.
kipor ranativer
1 pax $\mathrm{Cing}^{2}$ and


Nos





 athersenaine
等m




 in





|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |


pto mina

andert
pargeresterut
Primery vor
Sydint


jomberto.


(9)

 $\rightarrow \rho^{\circ} \boldsymbol{\partial} \boldsymbol{\gamma}$








 * Mrviopas
pride van anc - maphims
 - Mergonis $y \rightarrow 2000.1$.

 Fin $-4 \tan =2 \sin$ $5 x^{2}$
 Tu Napen anmazasidy kis jo pleyng
paninmal $14 \times 2+$


 ) $x)^{2}+2$


axas y


${ }^{0}$ cainmer


curvinatain waty.





roong jon previna poghn



Jiluapolianimsine

等

own
gray
ant $\mathrm{m}^{2}=$

$x \cos x+2$
$x+\cos$
$\rightarrow$ it mim
$\rightarrow+\operatorname{anc}+\infty$ ancin mint
$* 4$ Cringinos



$y^{2}+1+y^{2} \sin d x$

- ${ }^{\prime}$

Anhw $x^{\circ}$
it. $\sin$ mory
gmantion
ming y

anas
ither
at areat





 P
©. सी Ans?

## $\theta^{i}$


 Cu





 pyyy andy
purfinguty


 pam bonderict xavinaintal Emnk manix
 gesin $\sin 4 \cdot \tan$





 $\hat{y}$
 nximisive
maximpery


o b buxnitio
forbostomit
by
col
Autamax


$$
\therefore x y \operatorname{son} \text { ix }
$$

onsmery
lithanim
sborent
万raximex
24 P 4 y

Numpismixaly

spinderyw
Nanporys.










 mpyndopmatay

 Fporntymin

$\qquad$

$\therefore$ an prower gnnx iny And $x^{2}+x^{2}$ Auñ paspity dinnat

 mades etimatro



## ל

 fras :








fralyonvompand

|  |
| :---: |
| anlo |
| ans |
| \% |
| (0.0.pers |
| 13 rax |
| Sups |
| \% |
| erb |
| What |
| 4 |
| 3 |
| d |
| $0 \cdot 0 \cdot x$ |
| - ${ }^{2}$ |

iy. $3 \times \hat{y}$


$\rho$







 unintimanares．

foncinas





anporyay
pin widy
adimy
adring


4xouptinum，ec
ampalyy．



 － ＊ $x x^{2}$ onupor xt hat by ina do pio

 cisp hoos sud suvism


 Hismadip quy an aso
 ．indrabizan tana ？lyy has
 Duancis




和中 OnK


mand
\{ Romioper an

h opyyyyy
axtaveran
dandindry
1 ancigint


## 37








 Thumentern

aby
ankm min pin mise



 $\rightarrow+1$








 Date tat arderacos aruntinmer Stáviptifitown



$\because$

 $x=$ Theranatimfoxis wnincty 13n-107 Fine
A's on lob oundongata





fursizilo sipenam
 (na pasing se od atyn


in panlogur pas ioy T,











a ablun matixaty Parnmodx
 purnsumbat



- Latorging Jozisung in iupxos nuturymin $\frac{1}{16}$ hand seandixat ing
ol arnhank patico.
hrwywh oins



 7 If + mexampoph os op 40mpryunkan - ind wive at las - 2 matmupiofom $-d x+J$ manal ino oir


 -




 1 Pm provify in jompur armarnerciog
- 1 man on ados son ava des



 fitugo in puy un oink


 ponvorinative igluo ap dughtore






2 xil $_{\prime \prime}^{2}$,











 :
 $\mathrm{K}_{1}$


## 0



 - A paik







 - cragrasanatblu a rertaymansian inxy

 divxamjirmapoba


 - Mren ulisy va palin



 -






 $2 n \cdot p \cdot x^{\prime} \mathrm{d}$




minghailys.
Jonr apraptory
juna biarnt
$p o l x$ panimpromes
Siphen max
Rul prointers.

ipplionedy

م渻


capongatnoing

nolda tripint.en

ut sinay 1 ghe
Janllnaniwnity
croourantrone






* crognay an.
nespunpysp
- monsindalina
-120 ent phor
- Majbunzik)
rixteposs.
$\because$ : Hercephos

1. CROSMO2 in
$\cdots+x^{2}+x_{0}$
$\rightarrow x$ margeins
Sacranand $\mathrm{ra}_{2}$



- Mrestito an a
*intiap pusas.

 $\cdots$ (1)
- mitrecat puzins










 aKan
 Pro pale







 ofnc









Sospanark vinainge pibe une logencoritian







 - - -
 л,



保 ponnon

## N




 tr:

 y











 Aybindy. aonntight San ity


g lanstatandity

or vixinilac:
"Sy adyhyman".



$1 x$ in jow worny
















 fins as imoidrumand

 any in payn
 F'n yapariver

K


Ify





ar ounkid
23 Karaugaydy






2unsimsignton










 *ㄹ․






 th
















 Pu a pabbithotry pho (phymber
pan privicetin
Toan goanemay $=$

amprovanferymic.
puympang indmex
ano mananfory
jniluapoen 64 diver
puynin panapion:
$\rightarrow$ ayjpanalfity

pugenianyilmporviaur.
yoonaxalm? ayar.
Sulpyanion wita
lmpaks andomp wa
misj alinxon mixime









badyolfonku of former
n 10.1 palarken

+retry conymon

 conepaluppe pars iny y
和








-

-xin
/rys.

## 1

 "1, 4



Alatinese
万parmongt
a pob oxplos.
gyonosin.

Konve 0 ois ponith
spunanasdys.
piamatportay
Cuss puoter





 $J$ mintitusis
corytry prpuba
Otatplus

ה $\rightarrow \operatorname{man}^{2} \mathrm{~m}_{2} \mathrm{~m}_{2}$


 ) ition ong
and
$3,2 \mathrm{a} \boldsymbol{r a x} 2 \mathrm{a}$
axong miturem
10, إم




$2 \operatorname{mam}_{\rightarrow 1}$










and



m
 conytindet




 Primm an enis
mus focto-


onventigin.

Cinnify
$2 \pi$


inntry




 Pのt fral mancmy




[^0]






nitury yous

awher
siondity
andict
$3 \sin ^{2}+x$

fing ind


- 40

TM $7 \times \mathrm{M}$
cirnmic
〕ann


1A tradornan
tyeunpanion $x$.

? Haxdmat
juajondixyon



nsu pemsirit yy




## 3

|ulain



 Punz
 Hownongtay
 mentan
aluchty




hivernars.
00 yhrind


$r$

"forst.

-mixpripa


- purn andravy



- Figntyuine in nos

 $\leq \operatorname{con}$ Monturdi an 3 Hogn ing an N Whá"O出





 - ciperevier exalarajo
- amangar majui kto












## ETS





knistays
Paptrive


,
 Hume ontion farnin

afthemern














 Pn*


- xutindent Nigutaetiot we 1et . nuthat
N PTHEN
 xeg zix $h=$ Fhanlice

Pandwar

ander
2020 an


fortions.
stoparys.

, frimy
$2 n$ paty


ו


 cos on ${ }^{2}$ Finst 5 , $0 \times 2$


## 6






ir , rit 145 -ininut H2 ib $x^{2} x^{2}$
 pros cerbunamy

 sube anonritio
Luranomin ict 3
porybyy
shites
mont
fighosict


ento $x^{2}$


$\sin \alpha \sin ^{2}$




 su

 1
 rever 4herem





 hub



itarem

- $\cdot \operatorname{cing}_{4}$
barder
forinde

ahorymer
arymprand
dent rarime
Bardyaniminest
hivinoticy
Andan
Sten $1 \times 1$.
paresest 4



 2H 2 So proms inconar




等 xatentingot

250



Sepadat

min misth



orhtyiflo









## $C$

















$x x^{2}+\cos ^{\circ}$
parsparimptime.



Byutionty
potinctin
Potind
nk suot bink

antratoipastimlore:in
$m$ M, 1 jotary
int ingosem
fin indur z
sinntate

gixn xipluat

 $y_{2}{ }^{4}$





## 









Sny hat
xisith tornat

$50^{2}+2{ }^{2}$
Andathot
andinine


wipotionns




for "x-4iv
$\because$ Cheingry it

.

נה








 A1 Amint







* ratranso bato 04 monatanductu

 cheman un kam .




 - tedeproir jum, Zul

 $\xrightarrow[r]{T}$ retalining Fima mentma Mond
 2m"anto















Pmonnox







 20:A


## 



 pith imp





 Tan 5 indramatac. Sinatray




a orablyant-t
Dunamínar
poidinn

kinsung ang
$:$ :
TRL bandyayy
jucharinacis
$x \mid m$ - mad








## Cr









 (xrnajaing (iny Po 8 mingran polubinwirnant pulvationgug Repen peryct :3uv harost 5 mingapgligano مo? inderastat 2. |xn fripa arate Nontpyent Phid yNMM

Linsinghanderer

- ann ${ }^{2}$



ming nos apprexa




 2 的K

Px mamis.s.









I. Y. Mathingaper

1 ing acoparizum.
Teparyadithe
, dinmotat
$5 \times \min$
onp is busing ing


4
8



Themanay
on phindery


poniontup
$x$ pasedat
jimpewner

 Ans conyumandatory
 in. Sushoriontr


















prsal hajinginde
dup ishich ast
five haldanis．
nol oudrwpurine
2 poinherplamits

Plivemin is

p央4anmaxy
Juppon．expade fray
Difal orpartantatan


nopyoblipionty
beyitipnsuoty
nov

ailpapulepartaso＇s $k$


3yanthotind
bunusimeranym．





c. istingunanis

mast

rathon

1 ranuartantait
Lequertiones o．

```
                            \square
```

```
                            \square
```

```
                            \square
```

```
                            \square
```

```
                            \square
```

```
                            \square
```

```
                            \square
```


motan
YY) Yisn
Ginion
$-\cos$
rextriman

紫等
x




axk












的

Nu doyment


12 Trinixan xat


罢
polmasader












 yokt wivg ning pratyming


 - xumpuy tup


 paxite namer

 patarentrinato


conuth ${ }^{2} \times$ 5



- Mun inverefonat - Impiequmpapasas

 -
 \% fintiry



 Ftampentk shkejunks
 - witamany mity

 tinninfinnto madines eithen
 an werrats:










等 ．．．





 .5 A


Prdetr
 rindurginaraby Tharindwater







- kiximetron frention
 ander
asymine.




- ansm atandimate at
anh kum jomars? preforndupy"
Dinh a 50.
mon

 Nax

 Hing ont












porbumpher sex
aryander

rith in
Amices



## .

4
4
4
4 Findat lisprys



4
0
1 raponemis bumbich ? ${ }^{3} x^{2}+\operatorname{lin}^{2}$














$$
\mathrm{P}+\mathrm{O}^{2}+\mathrm{c}^{2}
$$

midjompary
y ע ע
abryusis




 SNMロ
$\therefore$ s．








```
*
```

15, 解品
解整
Mandma


```
澺
```

nex
Pryt
num

```
$
```


No
N
$F$ Frinn
$4+4{ }^{2}$

Mingry
yondive

$$
\begin{aligned}
& -1 y^{n} \\
& =10
\end{aligned}
$$

$$
5
$$

minatex
tempanguic

$$
\text { Aitway } x
$$

$$
\operatorname{rot} \boldsymbol{j}
$$

givenimatro
Pay max

$$
=-\min _{\text {ding }}
$$

xhentix

$$
\begin{gathered}
0 \\
0
\end{gathered}
$$

aramin
ornang

$$
\int_{1} \operatorname{win}^{4} y d x d x+1
$$

وينيالد19ـ







pusumberaty


2 mine $x^{2}+x$



Satmonativer
axin mindar ory $\therefore \dot{2}$ unatratict


 $x$ Lpringarinimit 4 prationtry

 , At ox sing了品"? Byrip Lnging











miterem
sidx
cushereforime
"ftanisin














 $\rightarrow 4$ 4ater pol

Wixeturact
 xestuman
 B. pasentamy
 waplomay
 S4.



```
O
```



$\qquad$

```
                            v
```

```
                            v
```

```
                            v
```

```
                            v
```

```
                            v
```

```
                            v
```

```
                            v
```

                            cy
                            \(\dot{6}\)
    






 1 Thy $06 x$, Pissuny unations: Cos
$\hat{i}$ purberunitume
nenk is arkheos.jum




yopananghing



ip
papton 5
bhe king et wide
posson fionng

fos ins ing yanturs





419
 0 追










 porn andoninge，


 －mun raju －ann aion yjo ion


 invudumbry

4．aq：
pn prompay





 ，
 Kgut
 $=x+i x y$



papranaterus
Apywntry

Ron $x^{2}$


prKy Dus
/aphidupusfyy
Vompunather

yki suainemex


Solvisuripiphent.

axpyong ornang $x$
purnumpoop ryat
त"?
$+$
 Ftyyiver
$\cdots 2 x^{2}$
arm ${ }^{4}$

ctatay
chy

4/tion
demeninds


4ingom nema
Kin onatrisistat






 K M M אins.
 Suat







 9 unturtion $4 x$


利 \{ow
 Fix.



 Hypal. Mith whim.


 prokno fun ridiulume
 $5 \lambda$ and aryan 1 NoMan
 2 von hopes mbopl

 orymatypy
 i
 A




Pana yly yo patrin ${ }^{3}$
 pitusy poptrixnexy
等 $\xlongequal{7}$

$$
2 \mathrm{den}+\sin \mathrm{y}
$$

Alunwn





路











 onntar no yon pa mat or.

 Ruth go dostur -


 phenfy ans yenay




M Mavomer



|  |
| :---: |
|  |

## 

 $p=$ purnpumantar Aloz palymoner ans eosjavisump N2n wo $x^{x}$















$$
+ \text { +quigon }
$$

Ant
durame

$$
\text { plosivant } 5
$$

$$
\begin{aligned}
& \text { coss } 3 \text { cotad } \\
& \text { sly } 30 \text { ana }
\end{aligned}
$$

Ayposiza

1010


$$
\begin{aligned}
& \text { Antiver }
\end{aligned}
$$








$x^{m+2}+\cos ^{2}$
Wrownd








, ink guarnimar 1 pungraminn



anganas 5
$i$ absaraputa
1 Kwnidg


 pibity fin


Sindoment
farestoryst

fun chex
$\cdots 1 a^{2}$

- junkg indictay

ne br arames
Opunikeajowinn





It hapudicter
2al Minct
wivni bon Thiot
" Ha forsamiay
hy wajoung a
5








\& punnn'д







 Ti 2 U











 in panamisismy. on Noalosety , noy yan: avjuparin mo.




 whateremininat. Rnoticichat uo bry.

4
4










.

- marifich pups foyk
$\because r \cos ^{2}$


- anctidux anan an
$\cdots+\cos \operatorname{lan} \sin \tan \sin$

3













jonet





ונתל 9109

## v











 13.m $24 x$
bemputhat


कi










a adef

$m$

- vartandatiopd kin
- mamathyperputons Tringrop le fora


 $-1+\cos$ - Montorn mon
 4. 4) $\cos ^{2}$ - Lompikion










 a

 p






 . 4 tom 1mpher

 Stromarinan 6 huradpingisy =nm Hem Stitm rarementandin
$\cdots$ Drand
 H Sunders neta



$\rightarrow x+m$

nimporider

 مjabyinco

 ann Na




## פר




 Nonl






```
Thatompen
```




```
aiml ungequme
```



opjor. acnalamems


- junnmit b
$3 \times 3 y$ andin
joiplong
0 andes who


Mn Kina. Taty

Tinn piturnoty
Katinity
5 คx $n+2$
T) 48 以 bemagit

- nimntipectaty
ni nun $\sin$ mem









 $\operatorname{dma}$




 Nin
- ouriporanis
uvarys yor
Priaidety
z nurg tres?

injonk ons
- remprong



```
\because
```

${ }^{2} 14$
-
$+1$








 $x+2 x^{2}+x^{2}=30 y$ - matheran min




paypmoil nopial. .





 3 minemingoptsa


 /mone kint raty.
 Cilutar ampursins









 م才, wing 0. i nascoinsuative











 3



1 pandon has


sinquinaty
cianculamaty


penditinations
Kuy dy Mot mos
pract aymor





3phandingande.


$m x^{2}+$
4)
 (c) mown mix.

 $x$ ation ondup nis 4 man nop * ${ }^{2}$ -
 wh proisatas Thentray $\therefore x_{0} x_{d} / x+y=y$ anolynempus $x$ - minctratinu $\cdots \mathrm{Sm}$ arydadid - traty

 $\cdots$ mentinn a riphation poxia

 pop 0 د

 Anonnapinulumits 12 Minaporactars.






 untu a








 jpin







 c) 0
 jum sponglu a ulununa hy




 phyal: otichetry
$\therefore$ au3 pong ity
W81 Pidetaty

Gatur arstang in
Susallogity

$\because$ van pimallopat


3rgagi pakainding.

 Mosumingispos ( hat viandin's
 Fing vak) (s, at


 - 2upe of pox angar antura bas $\cdots \operatorname{man}=0,0: 4$ $x x^{2}$ Tmatione qua Sthone $\mathrm{H}_{\mathrm{t}}^{2}+\mathrm{m}$

 is pun $3+3$ no
 $1 y^{4} \mathrm{a}_{4}$






等











 inkin putsy


 MnO



 /nants tratity atingors mos iny olnalintriziman andy id cigur evtor

 2rian win



 Sulinawn font







## (97477










paxisividuz
Agy
4.

tinta vax anays



- tandols anar $54+{ }^{2}{ }^{4}$ ty cricm
- mingerno inz
- Wardegrts purs
-4 atan ionds
$\cdots$ tatornanis
a sungor
ninn and - wr atanaing

2nven and
$\therefore-4$ mathers


Snnting $\operatorname{tin}^{\circ}$



$\rightarrow$ Kojucnilw Dion ina

Tepernanioi fuctar




## 



 Duid






 riknos tha sus arman

 a


隹的

nusugityme
 nan mand
 andent
 jogurder



 ．joninn s axy知 10




队ッ？








iny jutiong
 \＃ing batorm

 midy ming
 is und indoly
andoxix:

2 Wheprine ${ }^{2 x+}$


and 4
bides:-x

Ahintimi.

 suan mintotint







 A




 phab havikn


$$
\begin{aligned}
& \text { Pibytayngr }
\end{aligned}
$$

$$
\begin{aligned}
& \text { - yo 3xam mex. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Pa rivish }
\end{aligned}
$$














 nipi $2 \cos ^{2} \mathrm{~S}^{2}$

 Hanter
ע a nubioningiantac



Jnajh a a a y mury.
TMKa ynK pusumpaty.
MT A A



punk arwate fader anas.
hidulam andyr.

 2 Alya, íption a


 yun

 ทリン

## ררושׁ


















sinkinatysen $x$

Nh．aderioly


Knertarm－

pypandry
and 19.4

```
< +
```

```
< +
```

    ar \(3+1\)
    
4 sby⿱⿰㇒一日夊心

in $\sin ^{2}$
in endyander mors
nail

Sus


 K







 fin ixgo
 Sinnutupibnabunoty




 0 burusinatiod aubliminncticy
Nomandom
rusgidisiznow
Zontinngut






is alatrantituadond
 Sal Healart araing -





 Hind







## git?

人

 2 2




$$
+x+\infty
$$

$$
x=4
$$






\author{

}

os of

oughty
Sindyse

$$
\text { Junativem }=-7
$$

$$
6
$$

$$
\sqrt{3 y y} y
$$



.1. $\therefore 2+2$



a. bifatrexth
drequat ${ }^{2} x^{2}$
$3 \mid$ unghnuigate
i2

K. Plashander

NWerty

Nalungutantr

$x+5 m^{2} a+1$



4.
lix way portycinas


Qo.prymande
lo pmon mothe

nex
?
anosajon xasibom,





jnh $j_{2}$


## 1 1000






K.






 abreater ary
$3 y^{2}+5$



|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |

pysin Pipmitery.


 $\hat{S}_{2}$




 2didymor orporys
"anpylachaty"
wedempaty

Nilitimon
ximatax
Sigins
Sini nitar
pumprotict
Spuk
moymperr.

and 0 an :

OtiAb
favaknotandman
farkindranamary
FSynnk If dox mm


- $5 \times 1 / 2$

- 0 mac
ar:alounco:
- pornurys








 firictor



|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |





C
4 4
sinctive hive







 inndrap a


 yencine ipherax, +hatanan $x^{19 n}$ yots iscorych





$\therefore$ rextrion

,













$$
\mathrm{Cec}
$$

$$
x^{\prime}+\cdots
$$

Kinemer

$$
\begin{aligned}
& \text { mestex } \\
& \text { innoten }
\end{aligned}
$$

$$
\begin{gathered}
\mathrm{n} \\
\mathrm{H} \\
\hline
\end{gathered}
$$

$$
\sin ^{2}+2
$$

$$
\cos ^{2}
$$

$$
{ }^{2 n i n}{ }_{4}
$$

SHorvor
monerient
hor yozem

$$
\operatorname{Ln}
$$

sinn women
ar and




 alina
jo




y

bua cinx yres
 an burany $x \rightarrow 2$ aloand roging:

Hadmandras.
4) Tictamingopintio



 athe




sonderact
and prontrons
ip fateryar
sinytherver
corvelan
solexmangnato te











 4rat. $\because$ wenemancmite
rerana

a

$$
x+x^{3}
$$

$$
\sim+\infty, y^{2}+1
$$

**starysudy

$$
\therefore * \& T l_{1} \text { mand }
$$

$$
\therefore+2 x^{2}+\ln _{n}
$$

isdin
var
pr

$$
+\infty
$$

,

* (rind

$$
\therefore \therefore \operatorname{mon} 4
$$

$$
A+b^{4}
$$

$$
\therefore \text { chin }
$$

ורדנה



 pintse








 Pry
xgh in
























 and anturymer

trenest

บ Wigkina jun



Sobadity
Tamen y
Wo in : yans
-ract ram
$\rightarrow \times$ mempratscy - - maxy

Airno comath
2rathot $x^{2}$

- Mut

Pandinchita


5jnoxk ©







$\rightarrow$ 5uchatanary y

pantryatyinu-a.
ins.aturtygite
Kominiso
約 $y^{2 y y}$

$-\min _{x}^{2}$








AA.







 3us $n$ and





$$
\operatorname{cre}_{1} \quad 2 p \sin
$$




וכבּאם









ornapen

$$
x^{2}+x^{x}
$$

ytex
4ox

3 athing
孚


H Nrymin $8=0$

$$
\cdots y^{2}
$$

## Sn lyy

fonder s.

arymot
gmation
raplinetiniom

```
max'waymbt: .s
Phoypyo
```

    nites
    Amadrateres
Coluctatin
pate $0^{0}$

Arantures
sinflox
xin ixprorm
prisim
chin
siumprtarm.
mex monex
prypherotay
pulusimgration -
"panditwn
ALincernex




 it





ryonming




$$
x+x \rightarrow x^{x} x^{2}
$$



rypint
whayer-p
cedationd


jund pochinger
poypugheytys
to andract
2
ymitres. 0
yonycos.
32 5
Minct
6
Hench
हैinprom
say 1
decris.
$\operatorname{mon} \min$
Cratymis.
witheremer





 nz

## صהדורא> קמא> פ





## פקר


 5
25
64


Wrymen

$$
4
$$

$$
\text { X } x^{2}+x^{2}+x+2
$$

$$
73 \times r
$$

$$
5: 8+x
$$

Whis

## Ch

sing




anplace.



 Hf Minar oun








 Naryignome ahbenoter posion axnmatict zans stajamer

 1 prociatriviraty
 - hatrinaty max - Manday wixe Py man

 xancran $\cdot \mathrm{m}^{r} \cdot+h$

jatinc $x$
Premex
conouspligateryer
armendian mos

atin uy
cijundityys:
ghinmoynd

proverysyy.
giors saygit 4


Matand

Matar m +
n whan y
diamurnoser
pencormarto.
ind 1040
potiontrons
anfornatraty
Cow
dimpingey


 TY



 fowown





Mas mind

aternt
Pan $x+x^{2}$
ching
cisiden


J ringer
jegodrex
nulydinat.

Kمumbry



Nungity


faniont sine









 andrande. Kas matime: -
ander $x$






AHyAC
or apua

arnand















 Duns 2s cusphiphes axpinpruation $x$ 12p pi dogate



 mon ond




rangiun meys int

Therentry many




fans xating $x+1$


xanat Inmporma



## 



## -






$$
t
$$



 Thay








tesposinin. $a^{4}$



oparg maing


- an. ptpa jpoing. ox


sian miogu
Practinutinct
3 Kikung 2 nty

ponew hatrang. - Werinalipang
ponydenianctr:
 mbentinem

csconderan
ander to








## 530




 T لا






$\therefore: 0.9$ Su katumphem

trextind Nans

-mornay yai



Praxkamn Ant A.
al"3 Angulyes \%









ascomentione
Now nitas
Minghorgher
sunnory

foa nial pmanhergit

$$
\operatorname{sinct}^{2}
$$


puppoitriry 5


ching intir

pansi aician
paptomotpainer ver
calument:o -
fiondoratwoty

P(N) yly










 juxyth is ond dares

 orexrmyty
An elughent
sonsern
 ＊





Yoming ix


 stuen oaper our

的 $\hat{x} x$
 nabury

 $\therefore$ 而

chbopadinguracose
milbatimplow
a to a a lloperem

$29 \sin ^{2}$ prover


- ygas fayntruc


payphap:
innernares.


paxisentisind $x+3$















- fre mado not in inse rum to nome rons zasas


 Dotidery forderema. Pix.ondad
 pos oxympict

 - Mratery
 - Tra poreprases xarand worbeots 5









 naty






 Gnki kploppusif a inhty















tutunitinisum
 "aiviobs bingum.
 und minl pormadres priven lun wase pritay. Fof extu'g numes. fanganprandrat

 pisinguriputitay
 a mosern. 30 Thannmicy


```
*
```

$-5 y^{4}+\cos ^{2} \operatorname{man}^{2} \mu 42$

- Tax matimantio
- xampatapion

- mathor and

4, yuthin

 Lintmy mint THpake anin apy
 …anypubl asunt
 $\because$ Mremperistal

- $\times$ chewoun oll
- mandeto Sin is

Nembsin poltus

- metr chinionn

$\therefore$ ratangina
a. anymur

Mibitn Wite

- ${ }^{6} \mathrm{~m}_{\mathrm{p}}^{\mathrm{p} 2 \mathrm{ta}}$


Ain winderam

- mexumas

cmandmus

AWhativerady









 1 nom lambw



 prondater


Pinx pay



$$
\operatorname{cy} y+
$$

1 ubtupforiact
a culyger 20
on $24 x+4 x$
chavand
Nur


- binderin mat

andompros



## $2 \min x+\operatorname{mon}+x \rightarrow$
















Say at anganaras amy



Mingon asin iondor




 smeniompeasan
po kn wasa ${ }^{2}$ ant

 pots huluy yorys. - 3 moras inajy

- trivergn phans - Mavian abinn

! xin hisatyly


phon vinetrand
man ive manaby-4


```
                            -
```

```
                            -
```

                            \(\square\)
    . - Mrympris itys mpurajo oulo requn Way 1



Eviannjomanas
Ein
Ruby

knd mantrone

-) Knob gobsing fors.







 $\cdots$.












 ,











coudichin
y+xisen $\cos ^{2}+1 x, \cdots y$
fios ${ }^{2} x^{2}+4$
MN Whaty



Kidartiontamo

- 3 aro

```
        <
```

```
        <
```

```
        <
```

```
        <
```

```
        <
```

```
        <
```

        ...
            \(+2\)
    
xhormin mox



2 yorn on indrow

pigitatio.


$:+$
$x$ surphexh $x$ intor
sivise $x^{2}:$




 mex min









Nat nopedinderice




```
N cout ex
``` duba 2 ap at andmer
 Pidjondiatiny
 nusturntan wownyy
 pousinghitco ginniming aionans a an proalwnum / Ma cingxinatay

 jan buturpor 9 guma ind en






 Kinpaplyi. .






 RSs ins ming mon are




rsingasionay
- Ima aftex:
ayb bandar
tunjorifars
\(\%\)








 -2at
 - 5 K 3 y. - . .



 2







 nuns













 4


Nam: nunatiasmo.
- namenximbor

'panat paivermaty

On. \(2 p_{\text {PNA }}\)
ainy xam. and
* 2 on ormbariog

- Pajocimanmanaripos


 4indor ara faym: ratar Ox





 4 里 inaxporyyyyy

Ansily

\(-x^{2}\)



\(\cdots\)...

Mithmintlong
rope 3 impyy

platin \(2 x+2\)
Civer insud
\(\therefore 2 y+m\)
\(\because \cdots+\cos ^{2}\)
andapordizat?



yisorturdivent
jibmang
\(\because y+40 \operatorname{sen} x\)

\(\cdots\)
of hamming Ma
\(\Delta\) - \(\rightarrow\) Thafijuc

flon mition
den logiche
rate tix

A Allingondmosick. \(\ldots+\). +

say viar pancs pefirmen
arymity
man
(nall



 \(\ln n\)

 .





 pion in blup ond yogativerv:




 hoot by amainater -1




3 Kisponqugny
n-4x

Pumx-maniog ~ivy in phe tavara? Sonigy inglu randye
 ha perannachany
 - 0 .
\(\qquad\)

\author{

}
\(\qquad\)
O
man mis prigety
sindughy
\[
2
\]




כnain
 io ant















anyponkentions.




    antwhilubeokit.




Orr



miapm; jan y y





 :ann












 SUn Ampatandaly
 2 num at
 1 a myantan
 lo osos ancolyoor
 - pr"azamat
pous dind
pas puter


 hunn Werseryy




 - Ity










 plonisiotanduden. Anvo.


Prover artionjuy disio -mant rowhery cmax ins
... x-j jo minhoxs an
 תía arasal 6 mal imatic.inc:

39 sung prompand

in Nuxyrind

ptoays anver mimo

-int 589
- 7nosting
- apyon anoginer a-



Ptypaturat 2

teratal. puos als
\({ }^{2} r\). \(x^{2}\)
 - Conamapiso puxv




 +athrwin: 2
 - \(4 \rightarrow\) - mage yo.

 \(4 \rightarrow 2\) macyo.






 nas p PGolo pon
 a
 L.





 Dipaval \(N\)





 go pal pulurnial atan kit 2 n 12


 د






 \(x \rightarrow 2\)
\(\cdots\)
 Wh x

 Lrantex




 \(14{ }^{2}\)
 - Jode

 Whan mote mova pua our


















－plalu caill －A N



 janka


Kin and


an moby
Na phow
yo
偊 xpyaz
Kidpix
cmut on poy
Spaly





\[
\begin{aligned}
& \text { (20:2 }{ }^{2} \text { ) }
\end{aligned}
\]


等等 pal












\(\rightarrow 4+4\) and
＊egh yot bandy nol
－varmpisanjan＊
- Wrata inisa is


－Mrativersy \(2-124\) \(x^{4}\) tregitions ：\％Mostank

 \(\rightarrow 2\) － 4 4init．

 －\({ }^{4}\) ＂ 4 shen \(\rightarrow x^{2}+\mathrm{H}\) \(\min ^{2} \mathrm{c}^{2} \rho \mathrm{p}^{2}\)
 \(-1, r^{2}\) \(-\cos\) \(\cdots{ }^{2}+{ }^{2}\) \(\cdots\) con
 \(\cdots \times+{ }^{2}\)











解ACe
nuty
obrobitide
ungion

ajutivers

Poltinctores
sunting min
- ar rizunat
* mor men
\(\partial_{2}+\ldots\)
ing


-joghtat















ai piosparwe ang y
On xin max ano
nsicposodyongy
\[
\text { 4undun } \dot{u}
\]
nind Anopmprest










 punder




 xburn










RyNory






 punar










nind
cund
ping
1 nots tavis.
hintiontor
a franifyt



*



- mon mex

4 ming
\(6^{4}+106\)
跠
\(\mathrm{x}^{2} \mathrm{y}^{2}\)

\(\rightarrow \cdots+x^{2}+x^{2}\)
\(\cdots\) ar ation



filatintincor


stompy
Stupximproser
\(\therefore r^{2} \cos\)



\(\because\) O-thanghorram



 O 2 O










 b
b

























 ค 1
 2ing 35 metrainary.


\({ }^{2}\)

chty



conct
定







 1 inn randand an


Ann/winn notaryer
 Nact 4
fuy \(\left.H_{D} \cdot(n) 14 p_{0}\right)^{-\infty}\)
mex Cmontalal

* tre rimgerna

\(-r^{2}+3\)
4


\(\cdots\) cran

Ny Eapr aunat. wint
 \(\therefore 2\)
\(1.4 x^{2}\) antomy

Fiz

Manding.


: Mapacing \(\%\)
inlmbindsors
ips kingunjus himg mat


aju ins Nastamiana







品 0 人 ant ging \(x\) mon

 byine
\(\cdots \cdots+x^{+}+x^{n}\)



 \(\phi^{2}\)


\section*{קטז}


1 opyoundaymor












```

jaclury****

```


Pitamay

and
wher
荿
5'4









Nintries






Abdixhace
annestay
pan mady xick
Ats)atcy
now fing re

S sitys

undertic

char
cing

wditicn
1ptid
abmbints.
IWix pendy est
phonerny \(=+\)

Loxachand
exineprayis


-2al owjins iongh


 4

\(\mathrm{P}_{\mathrm{i}}-\)





/it in hlumprese


 \(8+4+5\) an ues in \(4 x\)
a yper mon ato

absing:
is minnte
5us)

enaphyist
is
nasisuyninc.
ajover
tivino

\(\therefore\) Pruporon


.
anj \(x^{2} y^{2} y^{3}\)
niting.r








\[
\begin{aligned}
& \text { bicher } \\
& \text { maty } \\
& \text { shtion at }
\end{aligned}
\]
    4y:
\[
.
\]
\[
\begin{aligned}
& \operatorname{cog}^{\prime} x \\
&
\end{aligned}
\]
....
\[
-14 t_{0} y^{2}
\]
\[
\rightarrow \text { - inn }
\]
Prony giran ar
juinderyou
\[
2 y z x_{2=}: x
\]
atmere: :
Nox.
enger
\[
m
\]
解
\[
\mathrm{ra}
\]
ghomsin
\[
y^{2} x^{2}
\]
\[
4 x^{2}+7
\]
No
\[
2 x+x+x
\]
Hoxten
of win
of chith is
anctinx-x.m
\[
\text { Lnul fiphed }>
\] nyinus lo

If Promirion
ary
sinien
\(5 \min +\cos ^{2} \times 1\)













P)

atraicic.
sut
futy
ation
Kriphtys and
thations.
dipsor
phanp-

Hor y
A.

piof 47


 तy in of oir







innat


arater tar ans





4- civithomstan



3ognes *

xathy
\[
\mathfrak{r}
\]
and enar mem Mut

as ednar mantict
48


4xamery



-,

mígitury
Sivistup



 pedig ion
 こnd



 phew
 1 bo surpan
 - razpencighy manarymo.







Kupodrainios

ary fares


fanpanaxyan \(x\)
 A) \(A R \operatorname{mon} m\) avK \({ }^{\text {and }}\) apant?
artandex




 onjaimionationt - idonchatmary :


fandinco
jugivincto



fonernery
nestripertat

minbuadrapuex fandevías minnt ow

in
+ Pjurimen


Anfis \(\rightarrow+\)
Mhsin m os
chaparr : 8
- My Plath,
shize
4
.
240:
aition anc:

(xacond njemper



 \(\rightarrow 1\) nik inn a) Axa

\section*{D}





 Whysuri.

\(\mathrm{Th}^{2} \mathrm{x}\)


ano ardymy
(omernery








Whatrionric*
hrap Howns.



Thatyefinner.
nigiman \(+1\)

-


Tuyapinnty
shay ingerne
Chosentres: \(x\).

Andingmatac
berty
15chentron min

Whone
Wripercive \(\because\)
If C

Hi maco deyesty
panavaraches

Pinempars





-





 P
 \(\pm\) drot
\[
c+x^{x}
\]

\[
\therefore:+\operatorname{cin}_{x}
\]

How

\section*{arcic}




 is hur


\[
\text { - } A
\]

Ma RLo spariateres
\[
x^{3}+x^{c}+\cos
\]



(and Ain wo
muacheras
\(\rightarrow a \cos \tan\)
\(\therefore 37 \mathrm{~T} / \mathrm{h}\)

MiNand


\author{

}
\(x+2\)
+2
```

* 

```
```

* 

```
```

* 

```
```

* 

```
```

* 

```
```

* 

```


```

* 

```
        24

    sfarathey
    Natydoryty
    \(15-x_{1} x x^{x}+x^{2}+1\)
        \(\therefore-\operatorname{mos}+\operatorname{cog}^{2} 8\)\(s\)\(*\)
\[
\operatorname{sen}^{2}
\]
4n
- cirgion
\[
8
\]
\[
t^{+\infty}
\]
\[
+x^{2+t} d
\]
\[
8
\]
\[
\sin \cos v i
\]


```

O

```




\[
x
\]


 \(\cdots\) chin \(t-{ }^{4}\) \(+4\) + xinnmis and














 abdingrarsme.


andich


wht
Sot
 4, Now
 Y) revonionimon




 - Car rambin oto 4ton















1 مyamo bindongints
\(\%\)
\(*\)



















\[
8
\]


No ariticts
P4x
:nther
"Wande
ondmes
:20.0






 \(\mathrm{K} / \mathrm{S}\)









menem
(x)
\[
\operatorname{lo}_{\text {phas }}^{x}+y_{x}^{x}
\]
\[
\text { Lexing } x
\]
Whentrict
oimyotror
ind
\[
29
\]
(4x
\[
\frac{1}{2}
\]
Rudate
\[
y<4<x
\]
\[
\operatorname{coc}^{2} x=
\]
\[
3 \text { metme }
\]
\[
x^{6} \cos ^{4} 9
\]
iminging
\[
2 \pi x^{2}
\]
\[
\rightarrow \text { ini Gos ha }
\]
Alimg scoly
aminginin
㽞itmorex

























- \(p\) (minngaris.

















 \(\therefore\) anion on ? Nowlewtity
\[
x^{5 x}+x^{2}+4 x^{m}
\]
\(x^{5 x}+\sin ^{2}\)


 pumporymis.

 sind by yeyty trat modray



```

            mind
    ```

7


innont




A Mr
                                .
```

                + 
    ```
```

            \square
    ```
\[
\begin{aligned}
* \\
\times y y
\end{aligned}
\]




\[
\therefore \text { eximbjex }
\]
Sorman
-ixnop
nopping
apung orman
ilopyongyse
King iposhand
 inaw













mas
 plyanntry bondy

 and inverexper Antingilemsem












風
 S.


jovichinindmon







codixana/umint



Mungation pespacy
- Inaindispinafury
\(\rightarrow\) ronatanumander





 - D 1. :introtyous


















\section*{ar}










 Trap iskuta o
dra exandir:
Q Wempisine
4 main 0 ary
ibution y
nexaycic
wis per in


copharetater

ghy anammoper



an xhaphinar
Coinlopyo persers.

 chaynfuga posy:
 gavang ipainiontia










 , 1 K

Sx me mox in a



 A/2 M2 ? Nalinuy








 I sho prata momauran.




joringity 5 ificts






*
wris
and
Sand yun Moper
anvenionas is
"popan plomanatyes a

"Hretrimamaí

- ovem lop

1 puisimbienty



















 Rons kaxamy
 xsi \({ }^{2}\) 2 andmes atugan.




























mantorner

 x:manmanymisem
 Pivend any Ans oumpuiver

 0 and Muname


ranno lomathys
Anpmivomatumer


- mive on
puv Guxn ban manda: \&





 Ah ©

















 impingensengung
\(102 a^{2} d f(x) m\)
Pua Al|kiskaym



xiser
 0


a mand man ulina na:g fuma - anturgans Ana wor


 ועתה










Bration






 -










 ipdoremer ying ory - do inforycta






 jnkı













Pdynnamanater
Quy nomern



Kintu bjaravent
Cperaxi iam a Coy
cfinhi mandranpmand
nevgan wit fon ayery
7/2 7xe: 2















م组
 prpatomingater

伿5
 \(3 \cos x^{2} \cos 2\)
 P Pur midery: 3oncintions
 a














\[
\therefore \text { A }
\]


Apinginge vernat. AD Frimethation \(\therefore 7\) y thormayan aras
Sind






Annamergast
Ph moxpar 4

sift anow mixy




 \(:\) m igihs

 |n1)







 yunaci itnatan -orwhombandmex
\(*\)



inser dryumer
isaxyduly


\(3 \sin \operatorname{lin}^{2}\)

wiondis:
wisit. 3









 binnaciac

> ximen ospos






Caprovien Man
and




(Finaichind
.
\(+3\)
\(\begin{array}{cc}\cdots \\ \cdots & 4 \\ \cdots & w^{2}\end{array}\)
Frini ontranta)
Ayspowherytroxm


Pymmy
\(x\)




\(\cdots x^{2}\)











 (0) axtrix




 . 40 aku עna
 nuinspmind oxty


- ixhl quandumand
anks \(x_{0} N n^{2} \cdot \sin 5 x\)

 Koplry ing datentryoners.
 r.bien rethay
is in

Phaterent
arhor \(3 \mathrm{max} y\) y
councuidere
aknpgunyd ace
 anxighty.
2 2nut papandotitit :
















 sop otsingentame
 shfix
\[
1
\] cilon arif
Kan
\[
2
\]
\[
24+\operatorname{lng}+16
\]
chemidar mont
Cbomidiay layen an
br - x ymomody
Hannangeteran
\[
r_{1}+\ln _{2}
\]

K K -
Knuor axion im in






 الעالم









\section*{ועתהT}




 3yhoriont




 " 1









Manaly Mol Whary y
\begin{tabular}{|c|}
\hline \multirow[t]{3}{*}{\begin{tabular}{l}
泣 \\

\end{tabular}} \\
\hline \\
\hline \\
\hline
\end{tabular}

- Joy dotataghay

AHmedty






vina ing pitandipiruisi






 Pa Cfaxa


 cuty iv




\(0 \cos -14 y \operatorname{mon}\)
    an usumion
    lumerne

    qu inferner



cosisid \(\operatorname{con}^{2}+\cos ^{x}\)
matrancy









\[
\begin{aligned}
& \text { mathome }
\end{aligned}
\]
\[
\begin{aligned}
& \text { dithnnthy }
\end{aligned}
\]




 Quns HNatbldosi






















 opoug
*

                \(t\)3
ning

\[
\sin _{x}
\]4
\[
-1
\]
ehoy
\[
5
\]
\[
\text { in } 5
\]







 JRhen y y y y 1own . 4..




hadmuthation
ainumat


brann











 *alun




 ix wame Pod



 Noparatioy hay



دо.



 \(\rightarrow\) ar in





颔








 Bhushaishen 人















 panturninder.

mpidinamant.

- Mindoriak

arsion phacoptick com


a lioptultarargiay







\author{
\(\qquad\)
}
\(\qquad\)
... Nexpere





 din


 Pas and


 nunywing intat
\(\rightarrow\)

aifinyma siowhe








aysintanh
By, gitamery

\(*\) - Matal kinpoing






3x \(x\) cid
24xy \(151+\)

\(\chi\)

*hatiopio \(*\) -













Nownc vertaty -



 ix froment
140.0.0.0












4\%




\section*{}







 ponluó





 woymory Son whomsing
 arrembins

 canderes. 4 32





 54 5




 a \({ }^{2}\) 人




\section*{ITPM2}






 cer
 an minatom

an anis aigung
\[
\begin{aligned}
& \text { - }+ \text { mingmano } \\
& \text { ~ind da }
\end{aligned}
\]





havoitinnty







 aluas

A保 .





 Pout



 lundergivet \(t\)
 andmex singentind








 , 1 in

\section*{Tow}









\section*{ערק}


 ank






Mystrats -
unyorys.


gy (eyn:
4









 ?





\(-\operatorname{crarman}\)
\(\therefore\) rindan an





meth
5
ragingomer er



\(0 \cdot x^{n}\)









cancanivazaly









3

 O A1K





 yedon an forman


 saptes and \({ }^{2}\)
 givors
nish \(x^{2}\)



- taindy

Bo.4Ct





















䭴:
OTP




Kive 1 , \(=2\)





\(\int\) cnichin
KIS ingixatio to


CA 13 Katumind \(*\)








\section*{פרק ג}










\(\because\)


 17 gunkely
 - montrevertan

 undurirocmator


\[
\text { * }+=A
\]
\[
=\operatorname{man}^{2} \operatorname{mon}^{2}
\]
 - \(\rightarrow\) -



 cyam ant





 opoladeog lyund



poxtran:
\(2 \cos ^{2}+x+x\).
eaphinces.
\[
p a y+x+x^{2}+x
\]
isthes
\[
\left\{\begin{array}{l}
3 y_{0} \text { bix } x \text { and }
\end{array}\right.
\]







 \(-x^{2}+240 \cdot x^{4}\)



 -





 \(\rightarrow\) une



 \(\rightarrow+x^{2}+x^{2}+y^{2}\) mas - mand an

is andiveloras not shown now thment ? \({ }^{5}\) Paraven \(x^{2}\)
```

                w-2m
    ```

```

            *"
    ```


\(\qquad\)
```

                *
    ```
```

                *
    ```
```

                *
    ```
```

                *
    ```



somanalijn
Weminouly

\[
-2
\]
\[
\pm \sin
\]
+
\[
C \text { Ches }
\]
3n+ on oigh


 anduatrity OH


 Num sun








 Chpix






xhis itracerest singurithingte
: acorych

thendary




1
\(x\)
\(y\) \(+\)






\[
\because
\]
- mader
\[
\rightarrow+x_{x}+x^{2}
\]
\[
\operatorname{comad}
\]

chat
\[
\begin{aligned}
& \text { bentry } \\
& \text { sing } \\
& \text { minntry }
\end{aligned}
\]
\[
\because \cdots
\]
ontremex
givins - men
\[
\text { I }:-\cos
\]
    sathergit









 ..... *•••
\[
x^{3+2}
\]

作等






 y













 Cont po hoon aty




 C
 مx
 slars


 ry






-
 קyy c \(_{21}\) "





 jivisu (lxaix





 niv 16 oppat pllywivivicw poaluryintios Pivan meuphime. * Mas aphator
 iveluposery usimporipites. kn anden ay - posingiryant uncispomen minw posmy




























\[
4 \text { un whom }
\]

18
4
3
4
2e.

就
 wis.

































\(\dot{x}\)
```


[^0]:    

