

A=10,20;0)

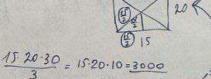
C1 = (15; 20; 30)

$$\overline{A_iC_1} = (15, 20, 0)$$

$$\overline{A_iD} = (920, +30)$$

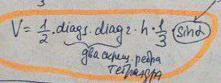
$$\overline{A_iD} = (15, 0, -30)$$

$$V = \begin{vmatrix} 15 & 20 & 0 \\ 0 & 20 & -30 \end{vmatrix} = 15 \cdot (-600) - 20 \cdot (30 \cdot 15) + 0 = 15 \cdot (-600) - 20 \cdot (-600) + 0 = 15 \cdot (-600) - 20 \cdot (-600) + 0 = 15 \cdot (-600) - (-600) + 0 = 15 \cdot (-600) + 0 = 15 \cdot$$



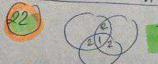
$$= -15.6 \cdot 100 - 6 \cdot 15.100 = -2.90 \cdot 100$$

$$\Rightarrow \frac{V}{6} = 2.90 \cdot 100 = 2.15 \cdot 100 = 2000$$





 $V = \frac{1}{2}.25.25.36.\frac{1}{2}.0 = 125.24 = 3000 \text{ the second of }$ $Sin \frac{1}{2} = \frac{15}{25}.\frac{2}{25} = \frac{3}{5}; \Rightarrow \cos \frac{1}{2} = \frac{1}{3} \Rightarrow 8ind = 2.\frac{3}{5}.\frac{1}{3} = \frac{24}{25}$



[3] [1:1000] h! [n+1] [n+2] [n+3] = a

(4x1) (nh) (mez) (n+1) (m+2) (n+3) = g2 (N+1) (N+3)=C2

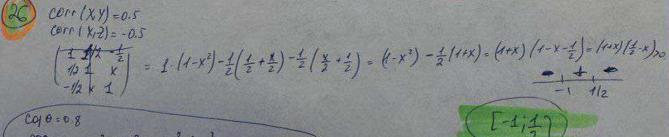


Water (N+2)2-1

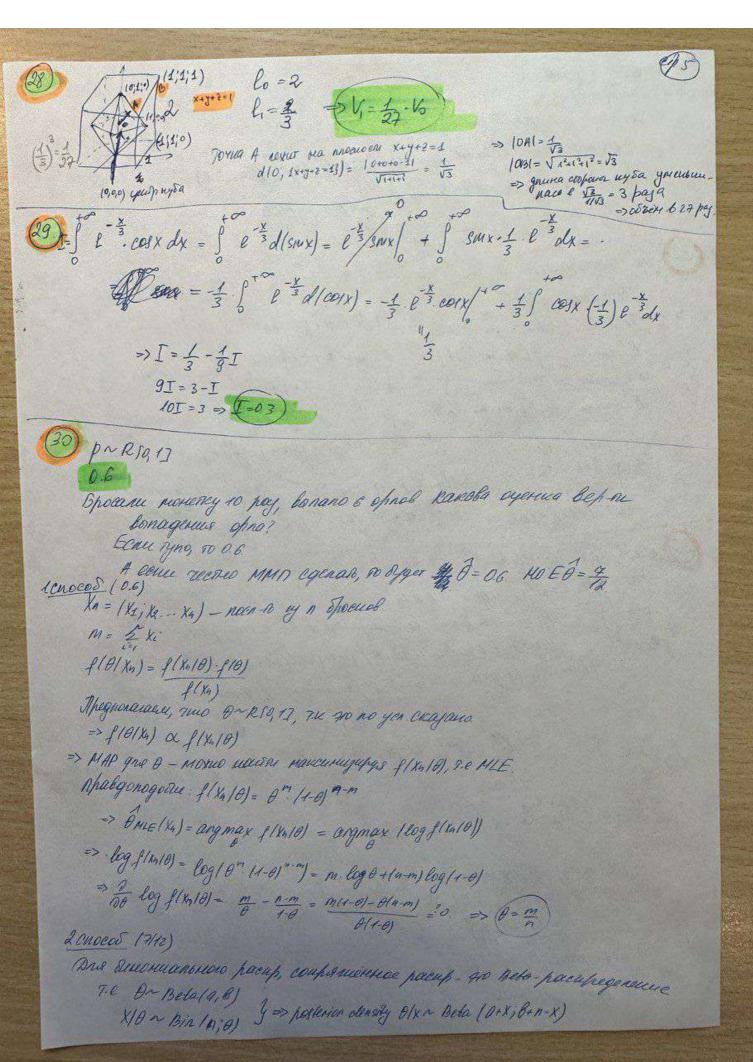
I mile North, Keyl, South, East > infinitely



Ala # 3 Cnoxellus f(3) →3. f(3)-4+1+2+3=7 \$(7) 4+1+2+3+4+5+6+2= 29 # 7 DADYAWW = 1127= 88 Wer flig|=1+1+2+---+ 28 # 29 Choreus =3+2+29 -39



CO 0 = 0.8 CO3 20 = CO120 - SUNTO = 1282 (28)2 0.67 - 086-028 nge x, ix; x3 - kopuu x3-2x-5=0. $= \chi^{3} - \chi^{2} \cdot \chi_{3}^{2} - \chi^{2} \cdot \chi_{2}^{2} + \chi \cdot \chi_{2}^{2} \cdot \chi_{3}^{2}$ - X2. X12+ X. X12 X32+ X. X12 X2 - X12 X2 X32 = $= \chi^{3} - \chi^{2} \left(\chi_{1}^{2} + \chi_{2}^{2} + \chi_{3}^{2}\right) + \chi \left(\chi_{1}^{2} \chi_{2}^{2} + \chi_{1}^{2} \chi_{3}^{2} + \chi_{1}^{2} \chi_{3}^{2}\right) - \chi_{1}^{2} \chi_{1}^{2} \chi_{3}^{2}$ ax3+ 8x2+ cx+d=0 $\chi_1 + \chi_2 + \chi_3 = -\frac{\ell}{\alpha}$ (25) X1+X2+X3=0 (51) $X_1X_2 + X_2X_3 + X_1X_3 = \frac{C}{9}$ X, X2 + X2 X3 + X, X3 = -2 (G2) Серпна жогд = 1-444-25= (24) $X_1 Y_2 Y_3 = -\frac{d}{a}$ $k_1 k_2 k_3 = 5 < (6_3)$ 0 (x, +x2+x3) = x,2+x2+x3+2(x,x+x,x3+x2x3) => x, 2+x2+x32 = (x+x2+x3)2-2(x,x2+x,x3+xex3)=0+4=(9) 在我就就在我去我们 (x) (x, (3+x) - x x 2+x 2 x 2 1 · (x,2+x2+x32)2 = x,4+x34+2(x,3x2+x,2x32+x,2x32) 1888 = Was prosent the san + King of the san - Was and the san - King of the san - K latholf ? f(xikix3) = k 4 x2 4 x34 S(V, X, X) = 5, 4.0 62 63 + A. 5, 3-1. 62 63 + B. 6, 2-2 62 63 + C. 5, 2-1 62 63 = = 5,4 + 4. 5, 2 62 + B 522 + C 6, 52 = F $(F = 61^{4} - 461^{2} 62 + 262^{2} + 46163) = 0 - 0 + 2.4 + 0 = 8)$ X,2+ X22+ X32 (2,0,0) 51 + A 5, 52 63 = 01 + A 62 => X= 16-8 = 8 = 44



В нашем епугае 0~ Bela (1,1) n=10; x=6; => posterior Olx-Beta (4;5) u uncereprespues monecen foix 10) = 2310 0 " 14-0) Toroca) Moga From paenpegeneure & 8 = 3 = 0.6 = MLE MO E [8 | X] = a* = (4) (31) The liar Secyon Trumeller Liar 140 = a+f+g+h NTIWINES NE, LIMES E 30 = b + l+g+(h) NT, Spring NE, Spring & 50 = e+8+f+h) NL, Summer N7, summer NI, Automn 0 = dietfigo NT, automn 0+8+c+d+e+f+g+h= 100 $\Rightarrow \begin{cases} 0 + 6 + C + 3h = 120 \\ 0 + 6 + C + h = 100 \end{cases} \Rightarrow \begin{cases} 2h = 20 \\ 0 = 30 \\ 0 = 20 \end{cases}$ C+h = 50 [a+b+C+h=100 (32) Walk on the Clube B Myra ugen y A & B.
Eenu own bypyr bejbpayaers & A - roomea failed
Macor El ruena ward | ona goenirna B) = 00000 (Plyenes)- Plyenex norm word + Plyenex no 5-41 + Plyenex no 7-41+... 等等 (D) 1/3 (6) 1 20 13 (2) =15 (I) 6000 E (21) years) = 3. P(403+1 man) +5. P(405-4 more) + ... => E(2 Nyenex) - 36 + \$ (46) = rucnusens (+5) = \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ => order 18 46/16 - 45 9 - 23 = (4.6)

(33) Random game

Kangon uj 4-x renotex numer obei uns na nuevoru, novon mecrorun neperanuesa or 2024 payuga b urpe

Marine Rephenoisus Merry points scored by two different players by the end of the ganger 14; Xi; Xi; Xy; - score Rangono whom & openin payinge

VL; Y2; Y3; V4 - score Rangono upon ja ben cerpy

 $\begin{array}{c} \text{Conf}\left\{Y_{5}, |x_{2}| = \text{Conf}\left(X_{1}^{(1)}, \dots, X_{1}^{(2008)}, |x_{2}^{(1)}, \dots, x_{N}^{(2008)}\right) = \text{cov}\left(X_{1}^{(1)}, \dots, X_{N}^{(2008)}, |x_{2}^{(1)}, \dots, x_{N}^{(2008)}\right) \\ = \text{More 2021} \cdot \text{Cov}\left(X_{1}^{(1)}, |x_{2}^{(1)}|\right) & \sqrt{\text{Desv}}\left(X_{1}^{(1)}, \dots, X_{N}^{(2008)}, |x_{2}^{(1)}, \dots, x_{N}^{(2008)}\right) \\ & \sqrt{2021 \cdot D(X_{1}^{(1)})!} \cdot \sqrt{2021 \cdot D(X_{2}^{(1)})} = \text{More 2} \cdot \text{conf}\left(X_{1}^{(2)}, |x_{2}^{(2018)}, \dots, x_{N}^{(2018)}\right) \\ & = \frac{1}{16} \cdot \sqrt{\frac{3}{16}} \cdot \sqrt{\frac{3}{16}}$

(4) Point in me Triangle

AB = 45; AC = 60; BC = 95; No 410 2) - paupo muas Bry Mu &

Hacmu bepro 1000, your largest perpendicular distance from point 2 to the

" triangle's three sides is the distance to side oc?

5) => P(novam & ANON) = 13/12 = 13/12 = 14/12 = 14/12 = 14/12

1)
$$10240512 = \frac{2^{10}2^{9}}{2^{10}+2^{9}} = \frac{2^{19}}{2^{9}3} = \frac{2^{10}}{3} = \frac{2^{10}}{3^{2}-1}$$

2)
$$\frac{2^{10}}{3}$$
 @ $2^8 = \frac{2^{10} \cdot 2^8}{3(\frac{2^{10}}{3} + 2^3)} = \frac{2^{10} \cdot 2^8}{2^{10} + 3 \cdot 2^8} = \frac{2^{10}}{2^2 + 3} = \frac{2^{10}}{7} = \frac{2^{10}}{2^3 - 1}$

3)
$$\frac{2^{10}}{7}$$
 @ $2^{7} = \frac{2^{10}2^{7}}{7(\frac{2^{10}}{7}+2^{7})} = \frac{2^{10}2^{7}}{2^{10}+7\cdot2^{7}} = \frac{2^{10}}{2^{3}+2^{2}-1} - \frac{2^{10}}{2^{7}-1}$
4) -.. @ $2^{6} \rightarrow 2^{10}$
 $2^{5} - 1$

$$\begin{array}{c} 4) & - & @2^{6} \rightarrow \underline{2^{10}} \\ 2^{5} \rightarrow \underline{2^{10}} \\ 2^{7} \rightarrow \underline{2^{10}} \end{array}$$

$$2^{4} \rightarrow \frac{2^{6}}{2^{2}-1}$$

$$2^{3} \rightarrow \frac{2^{10}}{2^{3}-1}$$

$$2' \rightarrow \frac{\epsilon'^{\circ}}{2'^{\circ}-1} = \frac{1014}{1013} = 1.00097752 \approx 6.001$$

Average time complexity O(N. logN), horst-case O(N')

$$\begin{array}{ll} \begin{array}{ll} \mathcal{J}(x) = P(z > x) \text{ . Maxim accumorately } g(x) & \text{Other. } e^{-\frac{x^2}{2}} \\ \hline \text{Domeans: } P(z > x) = \frac{1}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{x^2}{2}} dt = \frac{1}{\sqrt{2n}} \cdot e^{-\frac{x^2}{2}} \int_{-1}^{\infty} e^{-\frac{x^2}{2}} dt = \\ & = \frac{e^{-\frac{x^2}{2}}}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt \approx e^{-\frac{x^2}{2}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt = \\ & = \frac{e^{-\frac{x^2}{2}}}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt \approx e^{-\frac{x^2}{2}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt = \\ & = \frac{e^{-\frac{x^2}{2}}}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt = \\ & = \frac{e^{-\frac{x^2}{2}}}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt = \\ & = \frac{e^{-\frac{x^2}{2}}}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt = \\ & = \frac{1}{\sqrt{2n}} \int_{-1}^{\infty} e^{-\frac{1-x}{2}} dt =$$

