

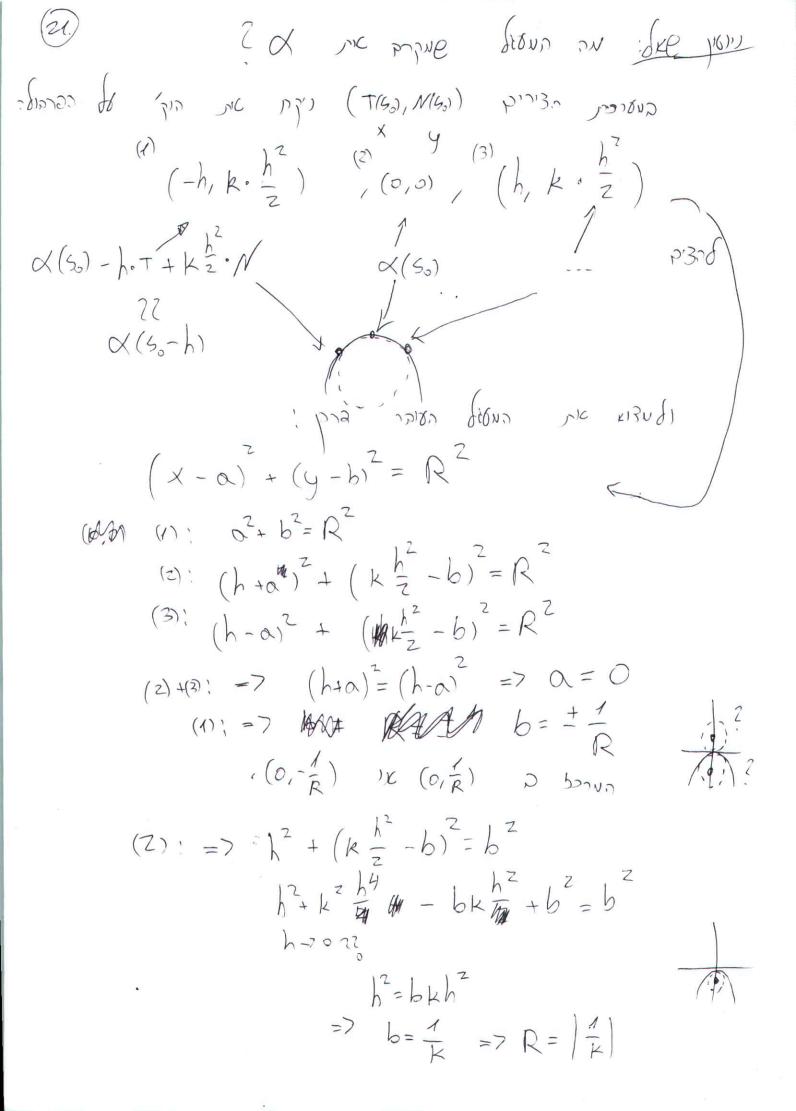
20) ((5,+h)) = ((5,+h), 17, 1+ )(1) ((5,+h)) = ((5,+h), 17, 1+ )(2) ((5,+h)) = ((5,+h), 17, 1+ )(3) ((5,+h)) = ((5,+h), 17, 1+ )(4) ((5,+h)) = ((5,+h), 17, 1+ )(5) ((5,+h)) = ((5,+h), 17, 1+ )(6) ((5,+h)) = ((5,+h), 17, 1+ )(7) ((5,+h)) = ((5,+h), 17, 1+ )(8) ((5,+h)) = ((5,+h), 17, 1+ )(9) ((5,+h)) = ((5,+h), 17, 1+ )(10) ((5,+h)) = ((5,+h), 17, 1+ )(11) ((5,-h)) = ((5,+h), 17, 1+ )(12) ((5,-h)) = ((5,+h), 17, 1+ )(13) ((5,-h)) = ((5,+h), 17, 1+ )(14) ((5,-h)) = ((5,+h), 17, 1+ )(15) ((5,-h)) = ((5,-h), 17, 1+ )(16) ((5,-h)) = ((5,-h), 17, 1+ )(17) ((5,-h)) = ((5,-h), 17, 1+ )(18) ((5,-h)) = ((5,-h), 17, 1+ )(19) ((5,-h)) = ((5,-h), 17, 1+ )(19) ((5,-h)) = ((5,-h), 1+ )(19) ((5,-h)) =

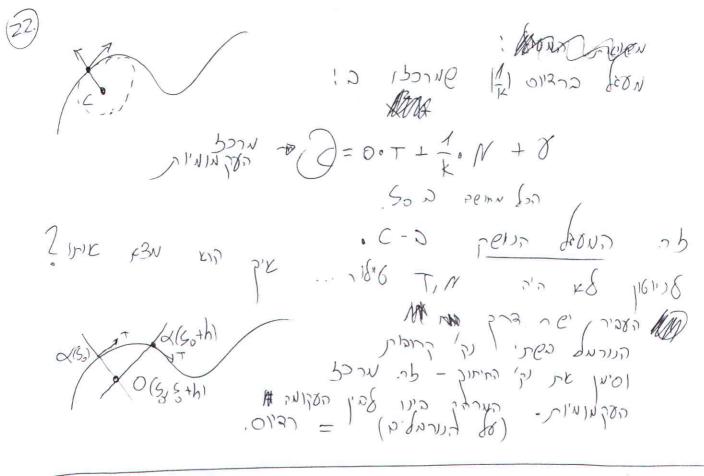
MODINI CHORN (2)) , (LIE 9-0 Milia) , LLE 9-0 Milia;

CAD SCULLE SCULL

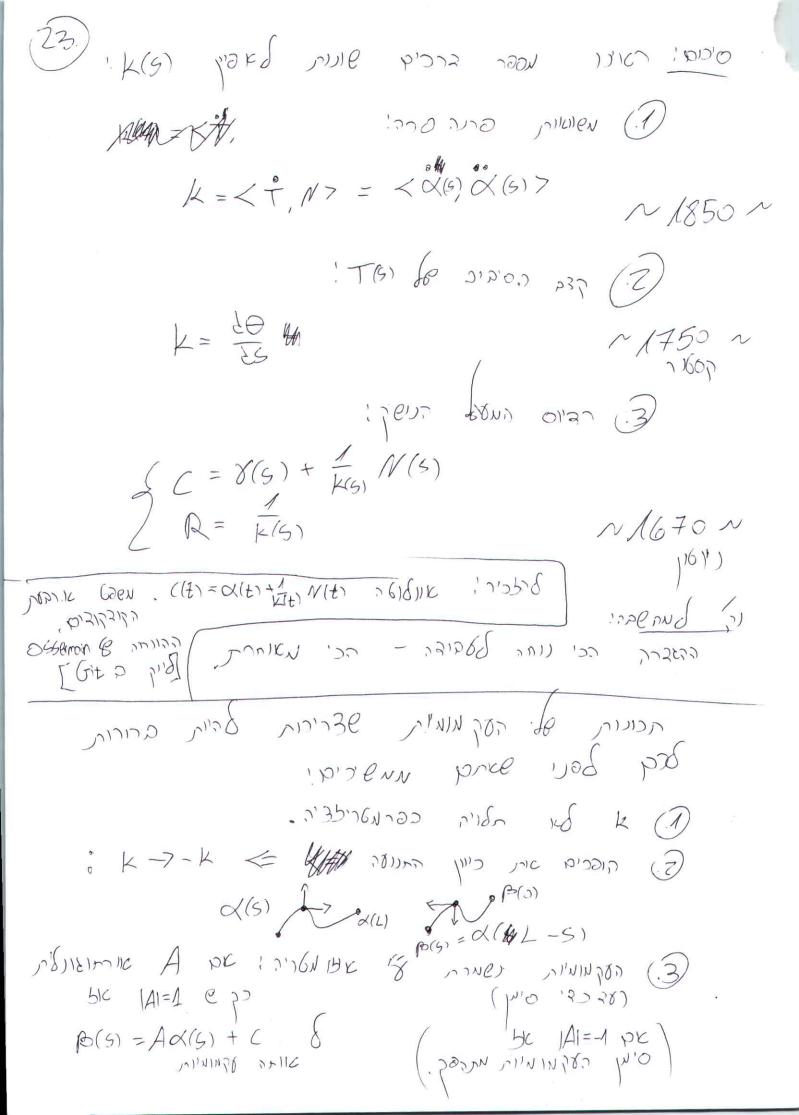
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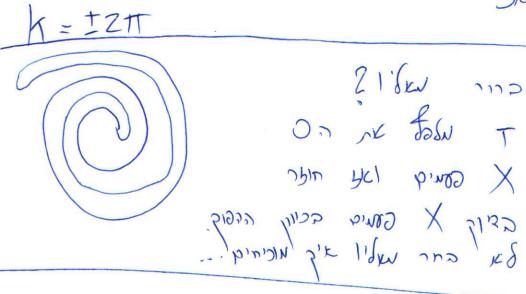


CIT CHILL SELL SILLI NORP CAI LINDER CIOL PRO. (5,5+h) המיתוך של השר'ם l(t) = d(50) + t. N(50) lz(\$) = &(5,+h) + P. N(5,+h) l(t) = lz(p)  $(3) \propto (5,) + t N(5,) = \alpha(5,+h) + P N(5,+h)$  $\alpha(5_0+h)=\alpha(5_0)+h\alpha(5_0)+o(h)=\alpha(5_0)+hT(5_0)+o(h)$ N(50+h) = N(50) + h N (50) +0(h) = N(50)M-h K(50) +0(h) t=p= 1/2(5) + o(6) p'SSINI ly(t) = &(5) + 1/4(5) N(5) (50) (50) 5000 <=



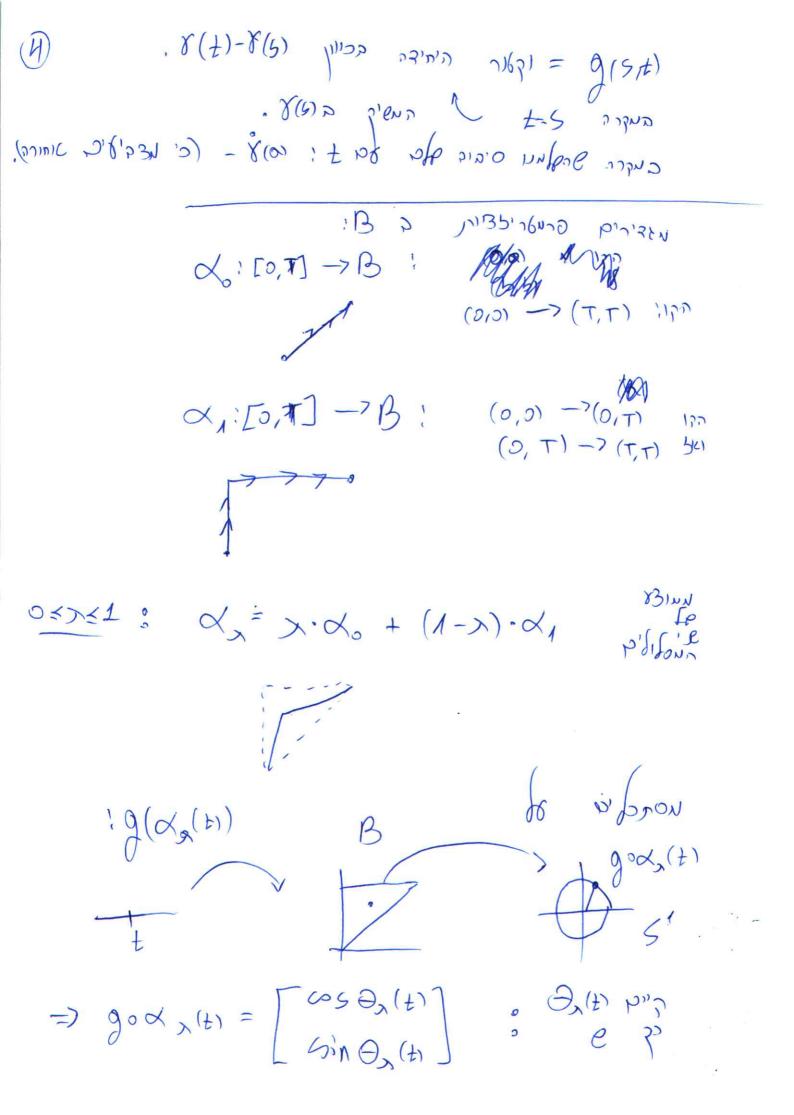
164722 MIN DIE DIEZ  $T(0) = \begin{bmatrix} \cos(\theta) & \cos(\theta) \\ \sin(\theta) & \cos(\theta) \end{bmatrix}$  $(*) \quad \Theta (5) = \int_{6}^{6} \kappa(p) dp + (e)$ しなら  $\beta(s) = \gamma(0) + \left[ \int_{0}^{\infty} \cos(\theta(p)) dp \right]$ 1,35)  $\mathring{\beta} = \begin{bmatrix} \cos(\Theta(s)) \\ \sin(\Theta(s)) \end{bmatrix}$ B(0) = 8(0)  $\beta(0) = \left[\begin{array}{c} \cos(\theta(0)) \\ \sin(\theta(0)) \end{array}\right] = \left[\begin{array}{c} \cos(\theta) \\ \sin(\theta(0)) \end{array}\right] = \left[\begin{array}{c} \cos(\theta) \\ \sin(\theta(0)) \end{array}\right] = \left[\begin{array}{c} \cos(\theta) \\ \sin(\theta(0)) \end{array}\right]$ 130= 0(5) · ROTT/2 B אסקנה: גם לקומיין עם אנתכן תעי היחלה ואותה אפקנה: גם לקומיין עם אנתכן תעי היחלה ואותה 6000 לעה לה לוב? קיבלע ארת פונק ציית ילווית (MBC) LI CUM, B (5)71 MOC! (UNE! ( NOC9 - 2,10 1,4,84)

לקומות - תטנות סלובלות. Jen 23 - Will Aline Lalphie (21) -> 16/2 . 006 H = / 12/5/25 (32.6) COLMAIN (5) = 1 k(5) 25  $K = \Theta(L) - \Theta(0) = \begin{cases} 1000 \\ 1000 \end{cases}$   $K = \Theta(L) - \Theta(0) = \begin{cases} 1000 \\ 1000 \end{cases}$   $K = \Theta(L) - \Theta(0) = \begin{cases} 1000 \\ 1000 \end{cases}$ K = 2TT (X) K=0 Jide (2(0) = 2(T)) 20180 July 2. DK 1,0189 · /2-2TTN <= O(L)=∂(0)+2TTN <= ÿ(0)=ÿ(L) (n)110 4.000; LU. 215- 12012 REINY 12185 (2000) (2) 6 017 52) 201601 22190 AM or Grude Day.

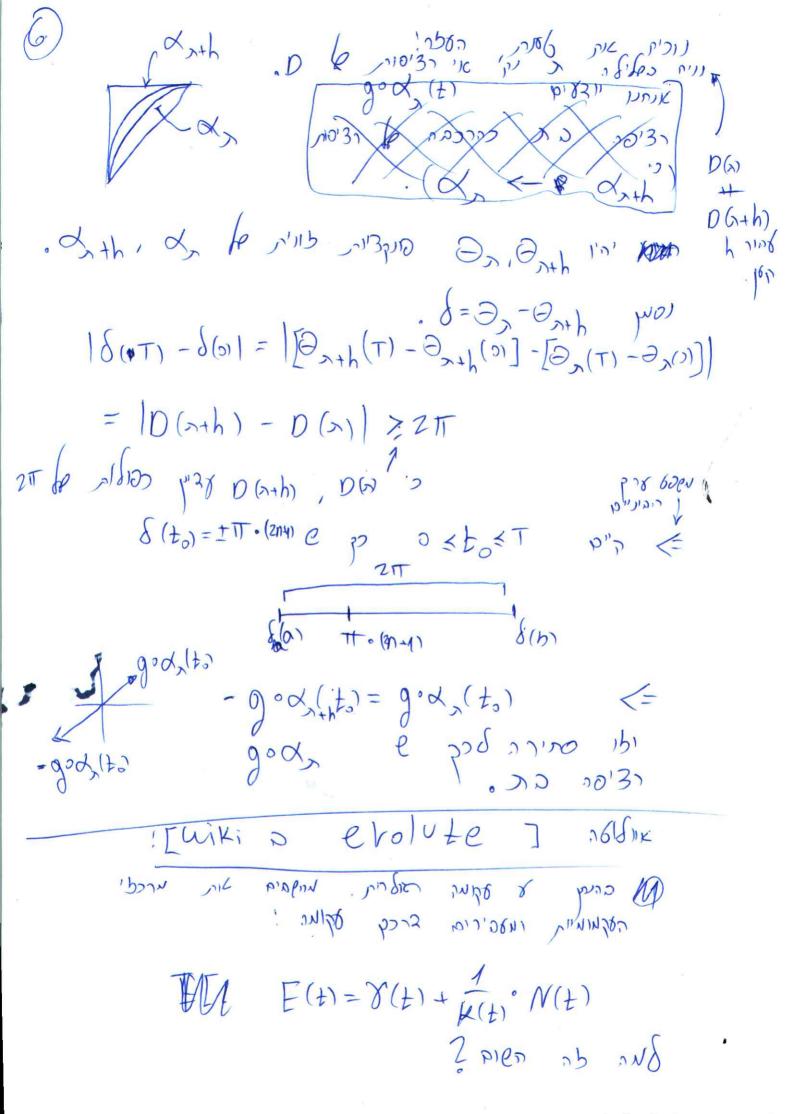


. [Git a pid Um loof sort ?] inning proposed of the (8) . Perd proposed of an inning of the an inning of the and inning of the and inning of the and inning of the and in inning of the and inning of the

 $\frac{g:B \to 5^{1}}{g(5,t)} = \begin{cases}
\frac{8(5)}{8(5)} & 5 = t \\
\frac{18(t) - 8(5)}{18(t) - 1(5)} & 0 + 5 + t + t \\
-\frac{8(0)}{18(t) - 1(5)} & 0 + 5 + t + t \\
\frac{8}{18(t) - 8(5)} & 0 + 5 + t + t + t \\
\frac{8}{18(t) - 8(5)} & 0 + 5 + t + t + t \\
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\frac{8}{18(t) - 8(5)} & 0 + 5 + t \\
\frac{8}{18(t) - 8(5)} & 0 + 5 + t \\
\frac{8}{18(t) - 8(5)} & 0 + t \\
\frac{8}{18$ 



(9 or sold ). . to 100'37) UNSERN (16'60 C t)  $D(x) = \Theta_{x}(T) - \Theta_{x}(0) = ZT \cdot \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$  $g \circ \chi(x) = g \circ \chi(0)$   $= \chi(x) = g \circ \chi(0)$ اددیم کارد: ها م دورود ور. الكام دورون (رودون المرحم المرحم المرحم المرحم المرحم).  $D(0) = \Theta_{0}(T) - \Theta_{0}(0) = K$   $T = \emptyset \quad \text{for a diling of a dil$ ) 10,0 862 [umloufsotz )] . D(1) = ZTT (אם הייע הופכים אוריינציה היה וצא אד



[wiki & Toutochrone curve ]
Thuygens - Mild used remie [wiki a involute gear ] (3)
.xi3un notike peur ] (3) TYT: Stere Male (austic lenses) 2160°9 6. Jus of 2018,00 gas 2018,00 } N - N K = 8-8- N K K T = 8 censo ges. Q 6, 21,411 € 21,6,25 €= 0 <= · [ Pit & bisbsin work 606N ( EIKUL COSIS (NORMY ) COSISI PREMIA EMILIA) 19/2 (2) Mer (2) (3)5 N [Git ) Rolls GOON ] , 200 - [Cit 2 51.8] 23 L 18 17K - 1,28 שאווון בא קופרוחשרי בנוונות כבר עוניטן לנותט יטסין פאף שמן

 $\mathcal{S}(t): [a,b] \rightarrow \mathbb{R}^3 \qquad \mathcal{S}(t) = \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix}$  $C = \frac{18^{2}}{10^{4}}$   $\frac{18^{2}}{10^{4}}$   $\frac{18^{2}}{10^{4}}$  Tr. & cermon gar. יש הובה אושרוות איקטור ניצב אד לפובק ינשה השלון ו יש הובה אנשרוות איקטור ניצב אד ( 2 מימגיק). 5) +(6) T L(8) 813, 50.618 in <=  $N=\frac{T}{11TII}$ התאוצה ל תעיך בכיוון (35'C: 11711= < 1, N > = (5) x C (5) 2 C (5) 2 C (5) 2 C (6) 2 आ त्याराष्ट्रीं अर देवार अरेप हैं देवार अरेप हिट्ट 1 (136) 11K) 1/11 הוקאר הבי-נורגלי B=TXN

ABGONISONN 160 - 11AXBII DENOSON 5pon3A, B} 1 AxB (2) . 'JN' 0'00 (A,B, AxB) (3)  $A \times B = \begin{vmatrix} \ell_1 & \ell_2 & \ell_3 \\ A^1 & A^2 & A^3 \\ B^1 & B^2 & 23 \end{vmatrix} \cdot 100$ G SAI NEAR SET NOIMER CITE OCE & (N.T). ? (TIMB) HO DAIR INEN E 36. U28CU T=KN N= 7 penns 66, 100 '50 (3) B=<B,+>T+<B,N>N+<B,B>B 3 = <B, T> T+ <B, N> N 25 / <B,T>=<B,N7=0 <= BLT,N 8131 · I <B, T>=-<B, T>

I <B, N> =- <B, N> T(5+h)-T(5) TATIGATO 7807 TATIGATO 760116 7BC B(Sth)-B(S) 1) -> I: <B, T> = - <B, KN > = 0 B = <B, N> N = - K(5).N. (15) = - <B,N7 J.0 torsion (GD) God &

[wiki a Torsion of a conve is GIF] (3) MISS DO 15 12 15 A MONIED ECITY N OBIG ( N ) B ; O< 2(5) ) T אירחונו רמליים, איחנו יוצדים מה ל,ד איפים. (ד, אים) א לא נשורת ברירה. N = <N, T>T + <N, N>N + <N, B>B 11 N1=1 => N' N => <N', N7=0 < B. N7 = - < B. N7 : PRIDU NXT => <N,B> = (6) < N, T7 = - < N, T7 = - < T, M7 , TNIR D =- 12(5) N=-K(5)T + C(5)B  $\begin{bmatrix} T \\ \mathring{N} \\ \mathring{B} \end{bmatrix} = \begin{bmatrix} O & K & O \\ -K & O & C \\ O & C & B \end{bmatrix}$ (M, k(5) prins: "1810 roen e 1825 pros (M), k(0) T(0), N(0), B(0) roen e 1825 pros (M), k(0) T(0), N(0), B(0) roen e 1825 pros (M), k(5) prins: "1810 prins e 1825 pros (M), k(5) prins: "1810 prins e 1825 prins (G) MA , k(S)

SIBNU: DEINU MAILUS CA-X  $\gamma(\mathbf{f}) = \begin{pmatrix} \mathbf{f}' \\ \mathbf{f}^2 \end{pmatrix}$ ! K, T, N,B  $N = \frac{1}{11} + 3 \times 10^{-1} \text{ M} \times 10^{-1} \text$ B, K 69 pd X-4 JIE'ND T, N  $B = T \times N = \begin{pmatrix} 0 \\ 0 \\ 11 \end{pmatrix} < =$ Sicial anily of noin of B raises ser noin of ribiling a 10. ed were, ad acian gan B unser 2011 190 とり . L(5) =0, <= B=0 [C2+ ) (1201) (4:9] Stine czipcis 22 3 k(6) \$0 est would. התעונה של צ מוכלת במישור כלשהו pok (6) =0 RELIAID FICULT X STORM & MICHA GU'SIC, (G'X) XINI onen xo Lls on Bullic is X-y new only .619=0 150 08

048/40 Y(5) <= 2 X 1 < x, w> = ( }

C(3)  $C_{1,1}$   $C_{1,1}$ ( 876) & shinel) 3T, NB

· 6,6n J16,7

9010: Na Novo (1001/ ) A BIACU ELL UNA, UNA, (1001/ ) A BIACU ELL UNA, (1001/ ) (+1/12) A 6 3 2 2000 JIPL BLE MALLER (-17/2) A 6 3 2000 JIPL MOR 10.61 (-17/2) A 6 3 2000 JIPL MOR 10.61 (-17/2) A 6 2000 JIPL  $D(h) = \mathcal{J}(h) - \mathcal{J}(h_0)$ 

 $X(h) = \langle D(h), T \rangle$ ,  $y(h) = \langle D(h), N \rangle$ ,  $Z(h) = \langle D(h), B \rangle$ 

JULY 8(4): [0,6] -1R2, JUL 1/2 8/11/2 B(# 80 ± (5)  $\chi'' = \frac{1}{6}S'' + \beta(S')^{2}$   $\chi''' = \frac{1}{6}S'' + \beta(S')^{2}$   $\chi''' = \frac{1}{6}S'' + \beta(S')^{2}$ 8' X8" = (A) XMX s'TX (5') 2 N = (5') 3 K. TX.N S= (=118/1140 => 5'=118/11  $<8''', B > = (6')^{3} | 2 = -7$   $<8'''', \frac{8' \times 8''}{118' \times 8'''} > \frac{118' | 13' \times 8''' | 12'}{118' \times 8''' | 12'}$   $= \frac{118' | 18' \times 8''' | 12'' \times 8''' | 12'' \times 8''' | 12'' \times 8''' | 12''' \times 8''' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' | 12'' |$