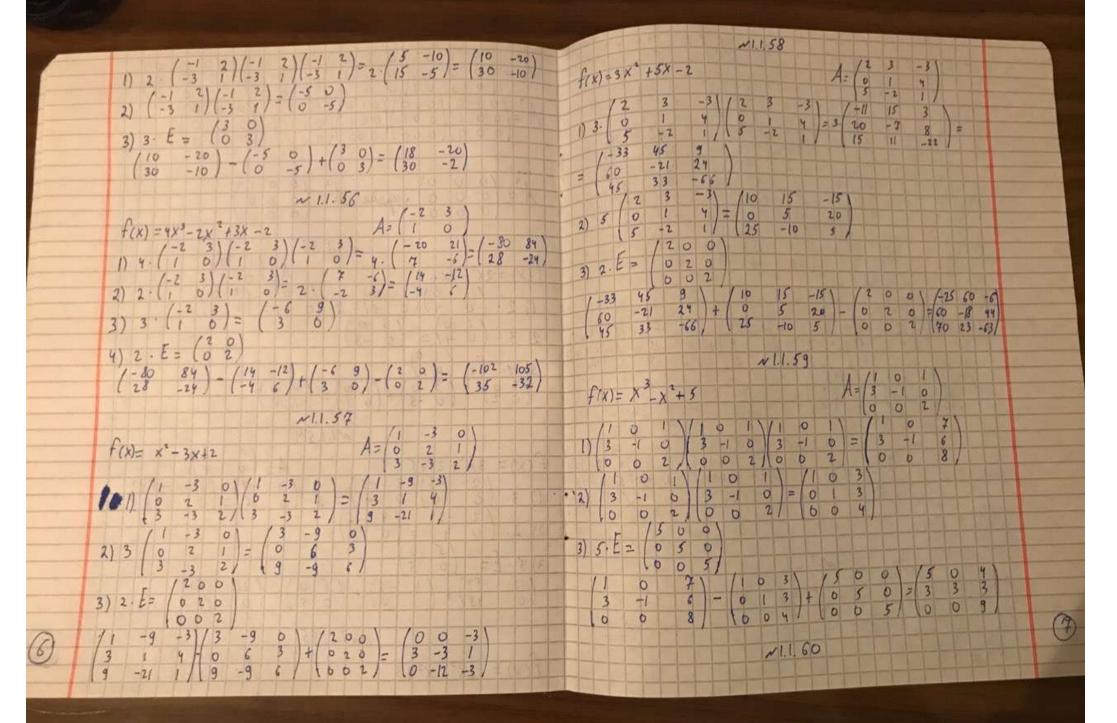
Lucopa, rpynna 1, n/2 1, Tygaran 1. 4. $A = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$ $B = \begin{pmatrix} 0 & 1 \\ 1 & -2 \end{pmatrix}$ $\binom{6}{12} - \binom{0}{2} + \binom{2}{2} = \binom{3}{7} + \binom{4}{16}$ 3 A - 2B = (3 $B = \begin{pmatrix}
0 & 5 & 10 \\
-15 & 10 & 0
\end{pmatrix}$ $20 & -\begin{pmatrix}
0 & 10 & 20 \\
-30 & 20 & 0
\end{pmatrix} = \begin{pmatrix}
0 & 0 \\
0 & 0
\end{pmatrix}$ 10 $A - \lambda E = \begin{pmatrix} 2 & 3 \\ 3 & -2 \end{pmatrix} - \lambda \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 3 \\ 3 & -2 \end{pmatrix} - \begin{pmatrix} \lambda & 0 \\ 0 & \lambda \end{pmatrix} = \begin{pmatrix} 2 - \lambda \\ 3 \end{pmatrix}$ - 2 4 A - 7B = 4 2 0 12 20 -12 -14 - 29 -33 +22 - 7 - 28 -19 N1.1.40 5 A - 3 B + 2 C = 5 / 3 5 -1 2 20

 $= \begin{pmatrix} -20 & -7 & 8 \\ 28 & 19 & -6 \\ -5 & 18 & 27 \end{pmatrix}$ $AB = \begin{pmatrix} 1 & 1 \\ 3 & 4 \end{pmatrix} \cdot \begin{pmatrix} 0 & -1 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 2 & 3 \\ 4 & 5 \end{pmatrix}$ $BA = \begin{pmatrix} 0 & -1 \\ 1 & 2 \end{pmatrix} \cdot \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} = \begin{pmatrix} -3 & -4 \\ 4 & 6 \end{pmatrix}$ $AB = (1 - 2 3 0) \cdot \begin{pmatrix} 3 \\ -3 \\ -4 \\ 1 \end{pmatrix} = (-1)$ $BA = \begin{pmatrix} 5 \\ -3 \\ -4 \end{pmatrix} \cdot \begin{pmatrix} 1 & -2 & 3 & 0 \end{pmatrix} = \begin{pmatrix} 5 & -10 & 15 & 0 \\ -3 & 6 & -9 & 0 \\ -4 & 8 & -12 & 0 \\ 1 & -2 & 3 & 0 \end{pmatrix}$ $AB = \begin{pmatrix} 2 & 0 & 3 \\ -1 & 2 & 1 \end{pmatrix} \cdot \begin{pmatrix} -4 \\ -3 \\ 5 \end{pmatrix} = \begin{pmatrix} 4 \\ 3 \end{pmatrix}$ BA- He 7, m.K. 1 = 2 $AB = \begin{pmatrix} 3 & 5 & -1 \\ 2 & -2 & 0 \end{pmatrix} \cdot \begin{pmatrix} 2 & 4 \\ -3 & 0 \end{pmatrix} = \begin{pmatrix} 14 & (1) \\ 10 & 8 \end{pmatrix}$ $BA = \begin{pmatrix} 2 & 4 \\ -3 & 0 \\ 5 & 1 \end{pmatrix} \cdot \begin{pmatrix} 3 & 5 & -1 \\ 2 & -2 & 0 \end{pmatrix} = \begin{pmatrix} 14 & 2 & -2 \\ -9 & -15 & 3 \\ 17 & 23 & -5 \end{pmatrix}$ $AB = \begin{pmatrix} -2 & 3 & 1 \\ 5 & 4 & 0 \\ 2 & -1 & -5 \end{pmatrix} \cdot \begin{pmatrix} 1 & -2 & -3 \\ 0 & -3 & 1 \\ 4 & -4 & 5 \end{pmatrix} = \begin{pmatrix} 2 & -9 & 14 \\ 5 & -22 & -11 \\ -18 & 19 & -32 \end{pmatrix}$

 $BA = \begin{pmatrix} 1 & -2 & -3 \\ 0 & -3 & 1 \\ 4 & -4 & 5 \end{pmatrix} \begin{pmatrix} -2 & 3 & 1 \\ 5 & 4 & 0 \\ 2 & -1 & -5 \end{pmatrix} = \begin{pmatrix} -18 & -2 & 16 \\ -13 & -13 & -5 \\ -18 & -9 & -21 \end{pmatrix}$ $(AB)C = (1 -3) \cdot (-2 \ 5 \ 7) \cdot (-2 \ 4 \ -3 \ 0) = (1 -3) \cdot (-2 \ 5 \ 7) \cdot (-2 \ 5 \ 7) = (3 -1 \ 2 \ 1)$ $= \begin{pmatrix} 3 & -13 & 3 \end{pmatrix} \cdot \begin{pmatrix} -2 & 4 & -3 & 0 \\ 0 & 2 & 5 & -2 \\ 3 & -1 & 2 & 4 \end{pmatrix} = \begin{pmatrix} 3 & -19 & -68 & 38 \end{pmatrix}$ $A \cdot (BC) = (1 - 3) \cdot \left(\begin{pmatrix} -3 & 2 & 0 \\ -2 & 5 & 1 \end{pmatrix} \cdot \begin{pmatrix} -2 & 4 & -3 & 0 \\ 0 & 2 & 5 & -2 \\ 3 & -1 & 2 & 4 \end{pmatrix} \right) =$ $= (1 - 3) \cdot \begin{pmatrix} 6 - 8 & 19 - 4 \\ 1 & 3 & 29 - 14 \end{pmatrix} = \begin{pmatrix} 3 - 17 & -68 & 38 \end{pmatrix}$

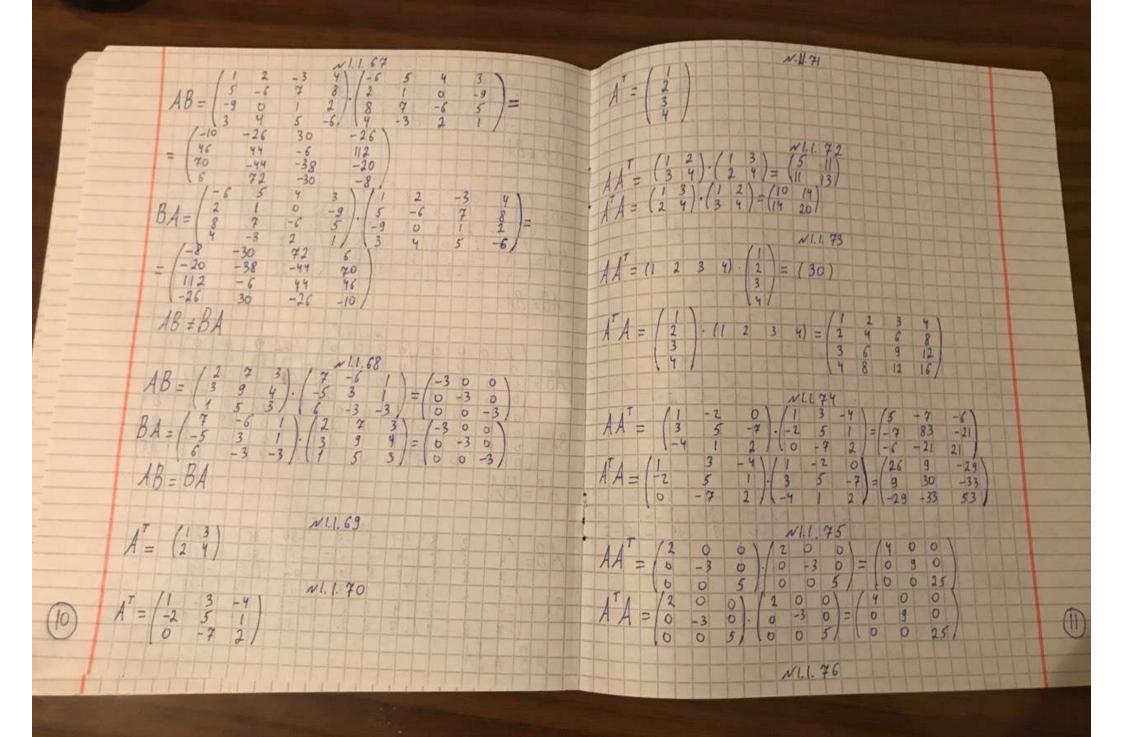
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A \cdot (RC) = \begin{pmatrix} -8 & 0 & 8 \\ y & 1 & -1 \\ 2 & -3 & 2 \\ 1 & 5 & 3 \end{pmatrix} \cdot \begin{pmatrix} 3 & 0 \\ -2 & 1 \\ y & 3 \end{pmatrix} \cdot \begin{pmatrix} -2 \\ 3 & 3 \\ 3 & 3 \end{pmatrix} = \begin{pmatrix} -5 & 0 & 8 \\ y & 1 & -1 \\ 2 & -3 & 2 \\ 5 & 3 & 3 \end{pmatrix} \cdot \begin{pmatrix} -6 \\ 7 \\ 1 \end{pmatrix} = \begin{pmatrix} 38 \\ -18 \\ -31 \\ 32 \end{pmatrix}
                  A = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}
A = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix}
A = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 2 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 3 \\ 0 & 1 \end{pmatrix}
A = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 3 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 4 \\ 0 & 1 \end{pmatrix}
                  A^n = \begin{pmatrix} 1 & n \\ 0 & 1 \end{pmatrix}
         A= (000)
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A= (0 0 0), more A= (0 0 0)
               f(x) = 2x^{2} - 3x + 1
(1) 2 \cdot {\binom{1}{0}} {
f(x) = 3x^{2} + 2x + 5
A = \begin{pmatrix} 2 & -3 \\ 0 & 4 \end{pmatrix}
A = \begin{pmatrix} 2 & -3 \\ 0 & 4 \end{pmatrix}
A = \begin{pmatrix} 2 & -3 \\ 0 & 4 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 16 \end{pmatrix} = \begin{pmatrix} 12 & -54 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 2 & -3 \\ 0 & 4 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 16 \end{pmatrix} = \begin{pmatrix} 12 & -54 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 2 & -3 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
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A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
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A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 48 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
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A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4 & -18 \\ 0 & 8 \end{pmatrix}
A = \begin{pmatrix} 4
                              f(x) = 2x^3 - x^2 + 3 A = \begin{pmatrix} -1 & 2 \\ -3 & 1 \end{pmatrix}
```



$f(x) = 2x^{3} - x^{2} + 3x - 2$ $A = \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix}$ $1) 2 \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ -2 & -1 & 3 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ 40 & 204 & -84 \\ -48 & 36 & -64 \end{pmatrix}$ $2) \begin{pmatrix} 2 & -3 & 4 \\ -2 & -3 & 4 \\ 0 & 5 & -1 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ -48 & 36 & -64 \\ -48 & 36 & -64 \end{pmatrix}$ $2) \begin{pmatrix} 2 & -3 & 4 \\ -2 & -3 & 4 \\ -2 & -3 & 4 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ -2 & -1 & 3 \\ -2 & -1 & 3 \end{pmatrix} \begin{pmatrix} 2 & -3 & 4 \\ -48 & -25 & 23 \\ -2 & -1 & 3 \end{pmatrix}$	$AB = \begin{pmatrix} 2 & -3 \\ 4 & 0 \end{pmatrix} \cdot \begin{pmatrix} 0 & -2 \\ -4 & 3 \end{pmatrix} = \begin{pmatrix} 12 & -13 \\ 0 & -8 \end{pmatrix}$ $BA = \begin{pmatrix} 0 & -2 \\ -4 & 3 \end{pmatrix} \cdot \begin{pmatrix} 2 & -3 \\ 4 & 0 \end{pmatrix} = \begin{pmatrix} -8 & 0 \\ 4 & 12 \end{pmatrix}$ $AB \neq BA$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$AB = \begin{pmatrix} 2 & -1 & 0 \\ 3 & 2 & 5 \\ 4 & -2 & 7 \end{pmatrix} \begin{pmatrix} -2 & 1 & 0 \\ -3 & -2 & 5 \\ -4 & 2 & -7 \end{pmatrix} = \begin{pmatrix} -1 & 4 & -5 \\ +32 & 9 & -25 \\ -30 & 22 & -59 \end{pmatrix}$ $BA = \begin{pmatrix} -2 & 1 & 0 \\ -3 & -2 & 5 \\ -4 & 2 & -7 \end{pmatrix} \begin{pmatrix} 2 & -1 & 0 \\ 3 & 2 & 5 \\ 4 & -2 & 7 \end{pmatrix} = \begin{pmatrix} -1 & 4 & -5 \\ +32 & 9 & -25 \\ -30 & 22 & -59 \end{pmatrix}$ $AB \neq BA$ $AB \neq BA$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AB = (2 0 0 0) (0 0 0 0) (0 0 0 0) (0 0 0 0) (0 0 0 0) (0 0 0 0) (0 0 0 0) (0
$AB = (123) \cdot {\binom{7}{5}} = (32) BA = {\binom{9}{5}} \cdot (123) = {\binom{9}{5}} \cdot (0123) = {\binom{9}{5}} \cdot ($	AB=BA
$AB = \begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix} \cdot \begin{pmatrix} -5 & 3 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} -5 & 4 \\ -5 & 4 \end{pmatrix}$ $BA = \begin{pmatrix} -5 & 3 \\ 2 & -1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix} = \begin{pmatrix} -1 & -1 \\ -1 & -1 \end{pmatrix}$ $AB \neq BA$	$AB = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} \begin{pmatrix} -1 & 2 & -3 \\ -1 & 5 & -6 \end{pmatrix} \begin{pmatrix} -2 & 3 & 36 & -92 \\ -2 & 8 & 9 \end{pmatrix} \begin{pmatrix} -2 & 8 & -9 \end{pmatrix} \begin{pmatrix} -102 & 126 & -150 \\ -102 & 126 & -150 \end{pmatrix}$ $BA = \begin{pmatrix} -1 & 2 & -3 \\ -1 & 5 & -6 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} = \begin{pmatrix} -14 & -16 & -18 \\ -26 & -31 & -36 \\ -38 & -46 & -54 \end{pmatrix}$ $AB \neq BA$

(8



002040 $\begin{pmatrix} -3 \\ 0 \\ 0 \end{pmatrix} \cdot \begin{pmatrix} 0 \\ 0 \\ -3 \end{pmatrix}$ $\begin{pmatrix}
 5 \\
 0 \\
 0
 \end{pmatrix}
 =
 \begin{pmatrix}
 9 & 0 \\
 0 & 9 \\
 0 & 0
 \end{pmatrix}
 =
 \begin{pmatrix}
 3 & 0 \\
 0 & 9 \\
 0 & 0
 \end{pmatrix}
 =
 \begin{pmatrix}
 3 & 0 \\
 0 & 9 \\
 0 & 0
 \end{pmatrix}
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 \begin{pmatrix}
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 =
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 0 & 0 \\
 0 & 0
 \end{pmatrix}
 =
 \begin{pmatrix}
 4 & 0 \\
 0 & 0 \\
 0 & 0
 \end{pmatrix}$ 0 2 0 0 2 0 $AA^{T} = \begin{pmatrix} 0 \\ 0 \\ 5 \end{pmatrix}$ $A^{T}A = \begin{pmatrix} 0 \\ 0 \\ -3 \end{pmatrix}$ 020020 2 - 4 - 2 5 5 2 5 0 0 3 -4 -18 -1 3 -10 -30 -10 3 -10 13112+555+500 1009 1-000 32 77 122 78 93 108 24.00 50 122 194 90 108 126 369789 1. (23 000 562500 5 - 7 2 - 5 - 12 - 4 0 121013111300 -3 3 -2 -3 3 9 1 -3 3 8 N1.1. 78 ~ (1 2 0 -3 1-2-1-000-000 3-61 A (4 5 6)I-4I n $\begin{pmatrix} 2 & -1 & 5 \\ 1 & 1 & 3 \end{pmatrix} \mathbf{I} - 25\mathbf{I} \sim \begin{pmatrix} 0 \\ 1 & -5 & 1 \end{pmatrix} \mathbf{II} - 25\mathbf{I} \sim \begin{pmatrix} 0 \\ 0 \\ 1 & 5 \end{pmatrix}$ $\begin{pmatrix} 2 & -1 & 5 \\ 1 & 3 \end{pmatrix} \mathbf{II} - 25\mathbf{I} \sim \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$ N $A = \begin{pmatrix} 2 \\ 1 \\ 0 \\ 0 \end{pmatrix}$ ~ WI. 1. 80 II - 3I VIII - 5 I VI.1.83

Y

II - 3I

-II - 7I

5 IV - I

-5 -39 III - 2I

IV -05II -2 3 -4 2 3 -13 Q -2 -2 -2 -2 1241-10 -13 -13 100 0 - 4 8 2 0 4 8 2 -1 -7 -15 -3 -1 -8 -2 37-1-1-1-482 A= 000 II - 2 II IV -05 II W1.1.81

