A

1.1 
$$A_1 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$$
,  $A_2 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ ,  $A_3 = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ 

1.1  $A_1 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ ,  $A_2 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ ,  $A_3 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ 

2.1  $A_2 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ ,  $A_4 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ ,  $A_5 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ ,  $A_5 = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$ ,  $A_5 = \begin{pmatrix} 0 & -1 \\ 0 & -1 \end{pmatrix}$ ,  $A_5 = \begin{pmatrix} 0 &$ 

$$(A_1 + iA_2) \cdot V_1 = (0 - 2) \cdot (1) = (0 \cdot 1 + 2 \cdot 0) = (0)$$

$$2 \times 2 \quad 2 \times 1$$

$$2 \times 2 \quad 2 \times 1$$

$$2 \times 2 \quad 2 \times 1$$

$$3) A_1 - iA_2 = (0 - 1) - i(0 - i) = (0 - 1) + (0 - 1)$$

$$= (0 - 0) \cdot (1) = (0 - 1) + (0 - 1)$$

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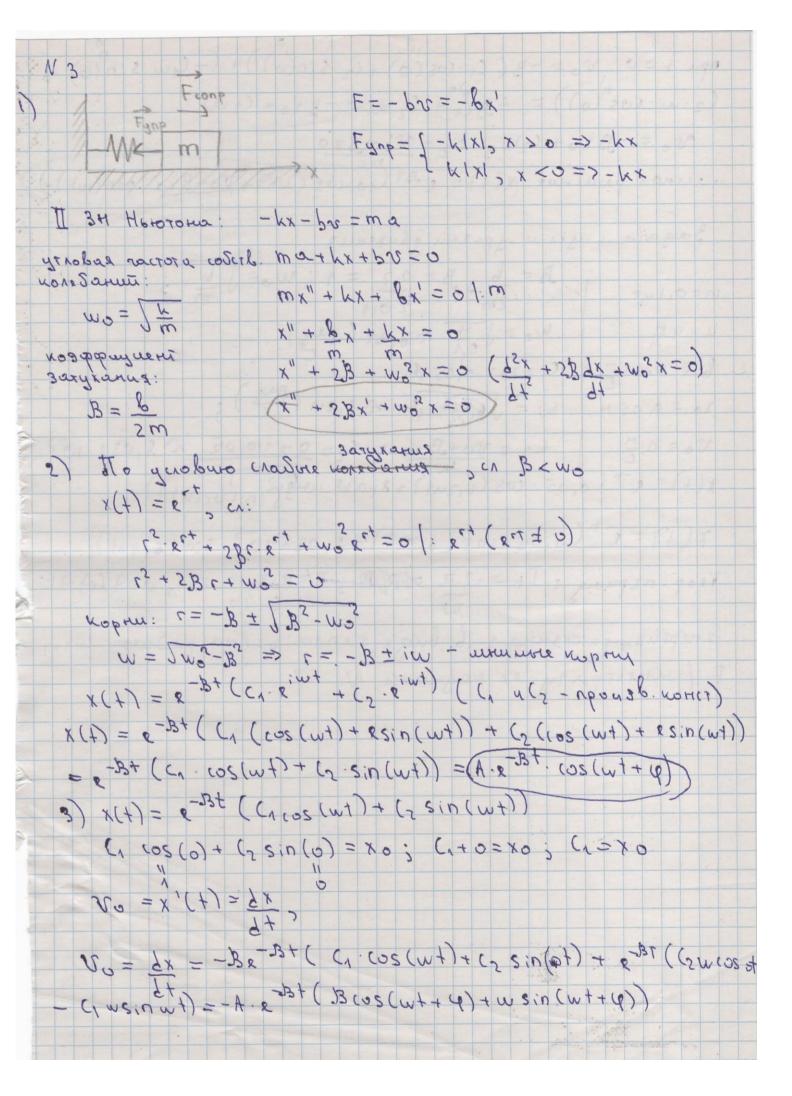
$$= (0 - 1) \cdot (0 - 1) = (0 - 1) + (0 - 1)$$

$$= (0 - 1) \cdot (0 - 1) = (0 - 1) + (0 - 1)$$

$$= (0$$

N 1.3

$$B_1: B_1^2 = A_1$$
 $D_1 = A_1: B_1 = A_1$ 
 $D_1 = A_1: B_1 = A_1$ 
 $D_1 = A_1: B_1 = A_1$ 
 $D_2 = A_1: B_2 = A_1$ 
 $D_3 = A_1: B_1 = A_1$ 
 $D_4 = A_1: B_1 = A_1$ 
 $D_5 = A_1: A_5 = A_1$ 
 $D_7 = A_1: A_7 = A_1$ 
 $D_7 = A_1: A_7 = A_1$ 
 $D_7 = A_1: A_7 = A_1$ 
 $D_7 = A_7: A_7 = A_7$ 
 $D_7 =$ 



npa +=0: 10=-B(C1.cos(0)+(2.sin(0))+(-(1w.sin(0)) (2. w. cos"(0)) = -BC1+C2 w=-Bx0+C2W No = - 13 x 0 + C2W , C7 = No +13 x 0 42 craox peuseure: x(+) = 2-13+ (x0.cos (ut) + No+Bx0 -5tn(wt)) 3 ag arua e yen u gp-3 mu gbuxenus  $B = 0.2 u_{2}^{2}$   $C_{1} = X_{0} = 0.05 M$   $C_{1} = X_{0} = 0.05 M$   $C_{2} = X_{0} = 0.05 M$ 10 = 0,05 M W = 16,322-18 26,24 (pag): x(+)= 2+ (0,05. cos (6,241) + 2,032.1015/2-17 (6,241)) x(+)=e+(0,05-105(6,24+)+2,032-103 500(6,24+)) Teop. nepaus : Tr = 250 + MM : T = 2.3,14 21,007 (1) 21, 3 neprus, paccesturas 6 buge terna pabria pasoto cunos F / weterpoing ez nouroan N

1)  $5i = 5i(8+2i) = 40i+10i^2 = 40i-10 = 20i-5 = 64-4i^2 = 68$ - 5 + 10; |-5| -10| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| |-5| 5517 34 2) eint = e°(coswittisinwi) = ext (coswittisinwi)
e-st e-st (cosotisino) Moggao est saprognent - ut o 2 = a+6; = 121 (cos q + isin q), q-aprymum) 3) 76+1=0 76=-1  $Z = 0 \int_{1}^{\infty} (\cos(\pi + i\sin \pi + i\sin(\pi + i))))))))))))))))))))$ L=0,1,23,4,5 F.K n=6 Z = (05 Jt + isin Jt Z = J3 + 1/2 i 22 = cost + isint 22= 23 = cos 5 to + is in 5 to 23 = - 53 + 1;  $Zu = (05) \frac{1}{2}t + (5)in \frac{1}{2}t$   $Zu = (05) \frac{1}{2$ T- = 5 600

