Thok 3. Marfuyor u marfurune one paymu. Dacost. D'Icoa no he B, ra cue noujhageme marfus AB u BA onfogenous, u mason faquefuccos nongressionex marfuy: AB u BA nelopuonino, r.t. 6 obus augrans ne bygyo coloagers tou-lo cronsiyol nellote u kou lo copole bropos naspinso. a) A-marpusa 4x2, B-marpusa 4x2. 8) A-warfuya 2×5, B-warfuya 513, 1B- warfuya 12x3. BA- ueloguoniko nefewnomusa 8) A-warfuya 8×3, B-warfuya 3×8. AB-AB- papul uvorolod marking - 9x8. BA - papul uvorolod marking - 3x3. 2) A4 B - relaghartine wearhungs 4x4.

AB 4 BA BYGYT wwere woordand fagures 4x4. (2) Hairou cyuruy u nfouglegenue washuy $A = \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix}$ u $B = \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix}$.

Cyurus $A+B = B+A = \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix} + \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix} = \begin{pmatrix} 5 & -3 \\ 3 & 5 \end{pmatrix}$ M/aylegenue $A.B = \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix} \cdot \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix} = \begin{pmatrix} 1.4 + (-2).0 & 1.(-1) + (-2).5 \\ 3.4 + 0.0 & 3.(-1) + 0.5 \end{pmatrix} = \begin{pmatrix} 4 & -11 \\ 12 & -3 \end{pmatrix}$ $B \cdot A = \begin{pmatrix} 4 & -1 \\ 0 & 5 \end{pmatrix} \cdot \begin{pmatrix} 1 & -2 \\ 3 & 0 \end{pmatrix} = \begin{pmatrix} 4 \cdot 1 + (-1) \cdot 3 & 4 \cdot (-2) + (-1) \cdot 0 \\ 0 \cdot 1 + 5 \cdot 3 & 0 \cdot (-2) + 5 \cdot 0 \end{pmatrix} = \begin{pmatrix} 1 & -8 \\ 15 & 0 \end{pmatrix}$ 3 Bornound unnebuys konstruayun 3A-2B+4C gune marping $A = \begin{pmatrix} 1 & 7 \\ 3 & -6 \end{pmatrix} \qquad 3A = 3 \cdot \begin{pmatrix} 1 & 7 \\ 3 & -6 \end{pmatrix} = \begin{pmatrix} 3 & 21 \\ 9 & -18 \end{pmatrix}$ $B = \begin{pmatrix} 0 & 6 \\ 2 & -1 \end{pmatrix} \qquad 2B = 2 \cdot \begin{pmatrix} 0 & 6 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} 0 & 10 \\ 4 & -2 \end{pmatrix} \qquad 3A - 2B = \begin{pmatrix} 3 & 21 \\ 9 & -18 \end{pmatrix} - \begin{pmatrix} 0 & 10 \\ 4 & -2 \end{pmatrix} = \begin{pmatrix} 3 & 11 \\ 5 & -16 \end{pmatrix}$ $C = \begin{pmatrix} 2 & -4 \\ 1 & 1 \end{pmatrix} \qquad 4C = 4 \cdot \begin{pmatrix} 2 & -4 \\ 1 & 1 \end{pmatrix} = \begin{pmatrix} 8 & -16 \\ 4 & 4 \end{pmatrix} \begin{pmatrix} 3A - 2B \end{pmatrix} + 4C = \begin{pmatrix} 3 & 11 \\ 5 & -16 \end{pmatrix} + \begin{pmatrix} 8 & -16 \\ 4 & 4 \end{pmatrix} = \begin{pmatrix} 11 & -5 \\ 9 & -12 \end{pmatrix}$ (4) Thank marfung $A = \begin{pmatrix} 4 & 1 \\ 5 & -2 \\ 2 & 3 \end{pmatrix}$. Bournaum $AA^{\dagger}u AA$. $A = \begin{pmatrix} 4 & 5 & 2 \\ 1 & -2 & 3 \end{pmatrix}$ $A.A^{+} = \begin{pmatrix} 4 & 1 \\ 5 & -2 \\ 2 & 3 \end{pmatrix} \cdot \begin{pmatrix} 4 & 5 & 2 \\ 1 & -2 & 3 \end{pmatrix} = \begin{pmatrix} 4-4+1.1 \\ 5-4+(-2).1 \\ 2-4+3.3 \end{pmatrix}$

4.1+5(-2)+2.3 = (45 0) 1.1+(-2)(-2)+3.3 = (45 0)