D A B

a) 
$$4\times2$$
.  $4\times2$  - He organismum AB u BA

8)  $2\times5$   $5\times3$  - AB-narping  $2\times3$ ; BA-ne organismum.

Cynna:  

$$A+B=\begin{pmatrix} 5-3\\ 3 & 5 \end{pmatrix}$$
  $A\cdot B=\begin{pmatrix} 4-11\\ 12-3 \end{pmatrix}$ 

3 3A - 2B + 4C  

$$A = \begin{pmatrix} 1 & 4 \\ 3 & -6 \end{pmatrix}, B = \begin{pmatrix} 0 & 5 \\ 2 & -13 \end{pmatrix}, C = \begin{pmatrix} 2 & -4 \\ 1 & 1 \end{pmatrix}.$$

$$3A = \begin{pmatrix} 3 & 21 \\ 9 & -18 \end{pmatrix}; -2k = \begin{pmatrix} 0 & -10 \\ -4 & 2 \end{pmatrix}; 4C = \begin{pmatrix} 8 & -16 \\ 4 & 4 \end{pmatrix}$$
orber:  $\begin{pmatrix} 11 & 5 \\ 9 & -12 \end{pmatrix}$ 

4. 
$$A = \begin{pmatrix} 4 & 1 \\ 5 & -2 \\ 2 & 3 \end{pmatrix}$$
  $3 \times 2$ 

$$A^{T} = \begin{pmatrix} 4 & 5 & 2 \\ 1 & -2 & 3 \end{pmatrix}$$
  $2 \times 3$ 

$$A \cdot A^{T} = \begin{pmatrix} 17 & 18 & 14 \\ 18 & 29 & 4 \\ 11 & 4 & 13 \end{pmatrix}$$
,  $A^{T} \cdot A = \begin{pmatrix} 45 & 0 \\ 0 & 14 \end{pmatrix}$ 
5.  $W \neq 1$