Homework 19.

Coordinate C. 14 char

$$\mathcal{F}: a_1 = (-3, 7), a_2 = (1, -2), A = \begin{pmatrix} 2 & -1 \\ 5 & -3 \end{pmatrix}$$

$$B: b_1 = (6, -2), b_2 = (-5, 6), B = \begin{pmatrix} 1 & 3 \\ 2 & 2 \end{pmatrix}$$

$$\mathcal{B} = \begin{pmatrix} 1 & 3 \\ 2 & 7 \end{pmatrix}$$

$$S_{A} = \begin{pmatrix} -3 & 1 \\ 7 & -2 \end{pmatrix}$$
 $S_{A} = \begin{pmatrix} 2 & 1 \\ 7 & 3 \end{pmatrix}$

$$S_{\mathcal{A}} = \begin{pmatrix} 2 & 1 \\ 7 & 3 \end{pmatrix}$$

$$S_{p} = \frac{-1}{5} = \frac{-3}{7} = \frac{1}{2} = \frac{1}$$

$$A' = S_{A} - A - S_{A} = \begin{pmatrix} 2 & 1 \\ 7 & 3 \end{pmatrix} \begin{pmatrix} 2 & -1 \\ 5 & -3 \end{pmatrix} \begin{pmatrix} -3 & 1 \\ 7 & 2 \end{pmatrix} = \begin{pmatrix} 9 & -5 \\ 29 & -16 \end{pmatrix} \begin{pmatrix} -3 & 1 \\ 7 & 1 \end{pmatrix} = \begin{pmatrix} -62 & 19 \\ -199 & 61 \end{pmatrix}$$

1)
$$S_{B} = \begin{pmatrix} c-5 \\ -76 \end{pmatrix}$$
 $S_{0}^{-1} = \begin{pmatrix} 65 \\ 76 \end{pmatrix}$

$$S_0 = \begin{pmatrix} 65 \\ 76 \end{pmatrix}$$

$$B' = S_p \cdot B \cdot S_B = {\binom{65}{76}} {\binom{13}{27}} {\binom{6-5}{-76}} = {\binom{1653}{1963}} {\binom{6-5}{-76}} = {\binom{-275}{-327}} {\binom{238}{283}}$$

$$A'B' = \begin{pmatrix} -62 & 19 \\ -199 & 61 \end{pmatrix} \begin{pmatrix} -275 & 238 \\ -322 & 283 \end{pmatrix} = \begin{pmatrix} 10837 & -9379 \\ 34778 & -30099 \end{pmatrix} = Answer$$

$$\begin{pmatrix}
1 & -3 & 4 \\
4 & -7 & 8 \\
6 & -7 & 7
\end{pmatrix}$$

#3.

1: (1,2,1)

CoScibennue zua venue: векторы: -1: (-1,0,0,1) Coderbennue 1000