Вісім 1

1) $\boxed{p: \begin{cases} x = 3 + 4t \\ y = -2 + t \end{cases} \quad t \in R}$

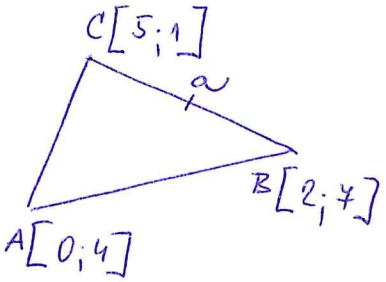
2) $\vec{s}_{AB}(6; -3) \rightarrow \boxed{q: \begin{cases} x = 1 + 6t \\ y = -1 - 3t \end{cases} \quad t \in R}$

3) мар. $t = 1 \rightarrow [10; -2]$
$t = 2 \rightarrow [13; -6]$
$t = -3 \rightarrow [-2; 14]$

4) $\vec{s}_q = \vec{s}_p = \vec{UV} = (-7; 2) \rightarrow \boxed{p: \begin{cases} x = 2 - 7t \\ y = 5 + 2t \end{cases} \quad t \in R}$

5) $a: \begin{cases} x = -5 + 3t \\ y = 7 + 2t \end{cases} \quad t \in R \rightarrow \begin{matrix} 5 = -5 + 3t \rightarrow t = \frac{10}{3} \\ 3 = 7 + 2t \rightarrow t = -2 \end{matrix} \rightarrow \boxed{M \notin a}$

$-\frac{31}{2} = -5 + 3t \rightarrow t = -\frac{7}{2}$
$0 = 7 + 2t \rightarrow t = -\frac{7}{2}$
$\Rightarrow \boxed{N \in a}$



6) $a: B; \vec{BC}(3; -6)$

- $\boxed{a: \begin{cases} x = 2 + 3t \\ y = 7 - 6t \end{cases} \quad t \in R}$

- $t_A: A; \vec{AS}_{BC} = \left(\frac{7}{2}; 0\right) \quad S_{BC}\left[\frac{7}{2}; 4\right]$

$\boxed{t_A: \begin{cases} x = \quad + \frac{7}{2}r \\ y = 4 \end{cases} \quad r \in R}$

- $v_A: A[0; 4] \quad \vec{s}_{v_A} \perp \vec{BC} \rightarrow \vec{s}_{v_A}(6; 3)$

$\boxed{v_A: \begin{cases} x = \quad + 6s \\ y = 4 + 3s \end{cases} \quad s \in R}$