BICAN IULIA 911

Pb 14 Find the parametric equations of the line through $P(-5, 2)$ (x_0, y_0) and parallel to $\overline{v}(2\vec{i}, 3\vec{j})$.

The vector eq. of this line is equal to $\overrightarrow{r_M} = \overrightarrow{r_P} + \lambda\overline{v}$, $\lambda \in \mathbb{R}$ (*)

We denote by x, y the coordinates of the generic point M on the requested line. Its vector eq. (*) is $\Leftrightarrow$ to the following system of equations: $\begin{cases} x = -5 + \lambda \cdot 2 \\ y = 2 + \lambda \cdot 3 \end{cases}$, $\lambda \in \mathbb{R}$.

These are the parametric equations of the requested line.