Решить методом Руне-Кутта с помощью MathCAD систему дифференциальных уравнений и построить графики:

$$\begin{array}{c}\frac{dP\_{1}(t)}{dt}=-λ\_{12}\*P\_{1}(t)\\\frac{dP\_{2}\left(t\right)}{dt}=λ\_{12}\*P\_{1}\left(t\right)+λ\_{62}\*P\_{6}\left(t\right)+λ\_{112}\*P\_{11}\left(t\right)+\\+λ\_{142}\*P\_{14}\left(t\right)-λ\_{23}\*P\_{2}(t)\\\frac{dP\_{3}(t)}{dt}=λ\_{23}\*P\_{2}\left(t\right)-λ\_{34}\*P\_{3}(t)\\\frac{dP\_{4}(t)}{dt}=λ\_{34}\*P\_{3}\left(t\right)+λ\_{54}\*P\_{5}\left(t\right)-\left(λ\_{45}+λ\_{46}+λ\_{47}\right)\*P\_{4}(t)\\\frac{dP\_{5}(t)}{dt}=λ\_{45}\*P\_{4}\left(t\right)-λ\_{54}\*P\_{5}(t)\\\frac{dP\_{6}(t)}{dt}=λ\_{46}\*P\_{4}\left(t\right)+λ\_{76}\*P\_{7}\left(t\right)-λ\_{62}\*P\_{6}(t)\\\frac{dP\_{t}(t)}{dt}=λ\_{47}\*P\_{4}\left(t\right)-\left(λ\_{76}+λ\_{78}+λ\_{79}\right)\*P\_{7}(t)\\\frac{dP\_{8}(t)}{dt}=λ\_{78}\*P\_{7}\left(t\right)-(λ\_{811}+λ\_{812})\*P\_{8}(t)\\\frac{dP\_{9}(t)}{dt}=λ\_{79}\*P\_{7}\left(t\right)-λ\_{910}\*P\_{9}(t)\\\frac{dP\_{10}(t)}{dt}=λ\_{910}\*P\_{9}\left(t\right)-\left(λ\_{1011}+λ\_{1012}\right)\*P\_{10}(t)\\\frac{dP\_{11}(t)}{dt}=λ\_{811}\*P\_{11}\left(t\right)+λ\_{1011}\*P\_{10}\left(t\right)-λ\_{112}\*P\_{11}(t)\\\frac{dP\_{12}(t)}{dt}=λ\_{812}\*P\_{8}\left(t\right)+λ\_{1012}\*P\_{10}\left(t\right)-λ\_{1213}\*P\_{12}(t)\\\frac{dP\_{13}(t)}{dt}=λ\_{1213}\*P\_{12}\left(t\right)-λ\_{1314}\*P\_{13}(t)\\\frac{dP\_{14}(t)}{dt}=λ\_{1314}\*P\_{13}\left(t\right)-λ\_{142}\*P\_{14}(t)\end{array}$$

Начальные условия:



$$P=\left(\begin{matrix}1\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\\0\end{matrix}\right)$$

t=0