X1‘ = -x1\*(k11+k12+k13+k14)+x2\*k21+x3\*k31+x4\*k41

X2’=-x2\*(k21+k22+k23+k24) + x1\*k12 + x3\*k32 + x4\*k42

X3’= -x3\*(k31+k32+k33+k34) + x1\*k13+x2\*k23\*x4\*43

X4’=-x4\*(k41+k42+k43+k44) + x1\*k14+x2\*k24\*x3\*34

<http://www.mathworks.com/help/symbolic/solve-a-system-of-differential-equations.html>