

In[*]:= **n = 3**

Y = Array[y, n]

Out[*]:= **3**

Out[*]:= {y[1], y[2], y[3]}

In[*]:= **F = Function[{t, z}, {z[[2]] * z[[3]] * Sin[t] - z[[1]] * z[[2]] * z[[3]],
- z[[1]] * z[[3]] * Sin[t] + (1 / 20) * z[[1]] * z[[3]],
z[[1]]^2 * z[[2]] - (1 / 20) * z[[1]] * z[[2]]}]**

Out[*]:= **Function[{t, z},**

{z[[2]] z[[3]] Sin[t] - z[[1]] z[[2]] z[[3]], -z[[1]] z[[3]] Sin[t] + $\frac{1}{20}$ z[[1]] z[[3]], z[[1]]² z[[2]] - $\frac{1}{20}$ z[[1]] z[[2]]}]

In[*]:= **K1 = Array[k, n]**

Out[*]:= {k[1], k[2], k[3]}

In[*]:= **K2 = Array[k, n, n + 1]**

Out[*]:= {k[4], k[5], k[6]}