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from numpy import zeros, array, linspace
from math import factorial
from matplotlib.pyplot import plot, axes, xlim, ylim

def Interpolation(x,u,a) :
    N = len(x)-1; U = zeros((N+1,N+1))
    for n in range(N+1) :
        U[n,0] = u[n]
    for k in range(1,N+1) :
        for n in range(N+1-k) :
            U[n,k] = k*(U[n,k-1] - U[n+1,k-1])/(x[n] - x[n+k])
    sum = 0.
    for n in range(N+1) :
        mult = 1.
        for k in range(n) :
            mult = mult*(a - x[k])
        sum = sum + U[0,n]/factorial(n)*mult
    return(sum)

x = array([2, 4, 2, 4])
u = array([2, 4, 4, 2])

t = array([2, 4, 3, 1])

plot(x,u,'go',markersize = 7.)

t_interp = linspace(0,5,100)
u_interp = Interpolation(t,u,t_interp)
x_interp = Interpolation(t,x,t_interp)

plot(x_interp,u_interp,'-r')
xlim((0,10)); ylim((0,6)); axes().set_aspect(1)

# Листинг программы, реализующей
# параметрическую интерполяцию кривой
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