```
import numpy as np
import sympy as sp
x = sp.Symbol('x')
def findL(points):
  L = [0]*len(points)
  for i in range(len(L)):
     numerator = 1.0
     denominator = 1.0
     for j in range(len(points)):
       if(not (i == j)):
          numerator *= x - points[j]
          denominator *= points[i] - points[j]
     L[i] = numerator.expand() / denominator
  return L
def get_polinomio(points, f):
  polinomio = 0.0
  L = findL(points)
  for i in range(len(L)):
     polinomio += (L[i]*f[i])
  return polinomio.simplify()
def main():
  x = [-1, 1, 2, 4]
  f = [7, -1, -8, 2]
  print(get_polinomio(x, f))
main()
```