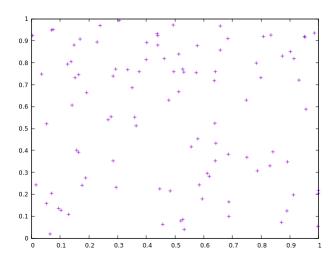
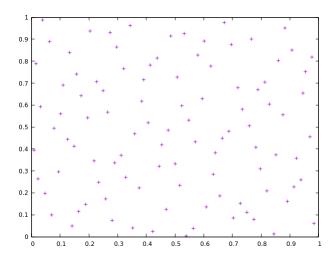
Worksheet 3 Practical Lab Numerical Computing

Task 7 Uniform random numbers in $(0,1)^2$:



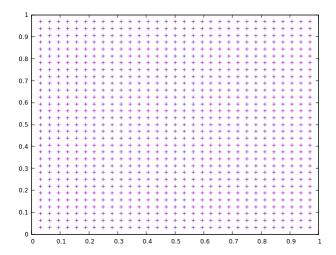
Halton sequence:



One can see that there are some regions in $(0,1)^2$ where no uniform random numbers are set. This is not the case in the point set calculated by the Halton sequence. The Hatlon sequence gives a very uniform spread set without any holes.

Task 9

Qudrature nodes of the two-dimensional product rule for trapezoidal rule:



Qudrature nodes of the two-dimensional product rule for Gauss-Legendre:

