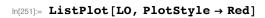
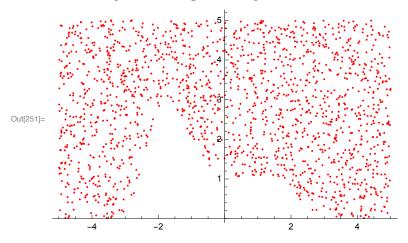
Reject Sampling Monte Carlo

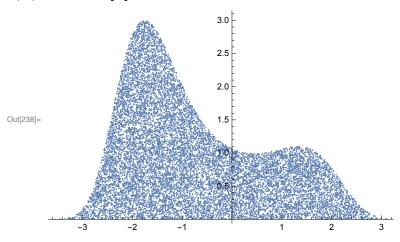
Reject Sampling Monte Carlo

```
ln[115] = f[x_] := Exp[0.4 (x-0.4)^2 - 0.08 x^4]
ln[270]:= P0 = Plot[f[x], \{x, -5, 5\}, PlotStyle \rightarrow Black]
                                   3.0
                                   2.5
                                   2.0
Out[270]=
                                   1.5
                                   1.0
                                   0.5
                         -2
In[125]:= x := 10 * RandomReal[] - 5
In[128]:= y := 5 * Random[]
In[130]:= SX = X; SY = Y;
In[133]:= f[x]
Out[133]= 0.998394
In[134]:= f[x]
Out[134]= 0.00108828
In[263]:= Clear[sx, sy, L, LO];
ln[264]:= L = {}; LO = {};
ln[265]:= Timing[For[i = 0, i < 10001, i++, sx = x;
          sy = y;
          If[f[sx] > sy, L = Append[L, \{sx, sy\}];
           Clear[sx, sy], LO = Append[LO, {sx, sy}]]]]
Out[265]= \{0.453546, Null\}
```



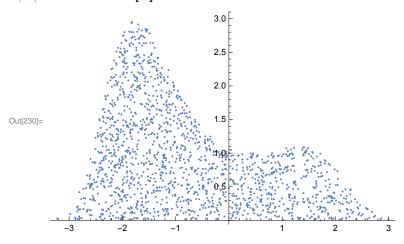


In[238]:= ListPlot[L]

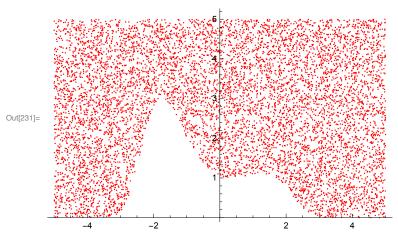


Time

In[230]:= P = ListPlot[L]



ln[231]:= PO = ListPlot[LO, PlotStyle \rightarrow Red]



In[271]:= **Show[P, PO, PO]**

