```
Zestaw 8 zadanie 2
ln[124]:= f[{x_, y_}] = (1-x)^2 + 100 (y-x^2)^2;
ln[125] = FindMinimum [(1 - x)^2 + 100 (y - x^2)^2]
                         \{x, 0.1\},
                         {y, 0.1},
                         Method → "LevenbergMarquardt"
Out[125]= \{0., \{x \to 1., y \to 1.\}\}
ln[126] = FindMinimum (1 - x)^2 + 100 (y - x^2)^2,
                         \{x, 0.5\},
                         {y, 0.1},
                         {\tt Method} \rightarrow {\tt "LevenbergMarquardt"}
Out[126]= \{0., \{x \to 1., y \to 1.\}\}
\ln[127] = \text{FindMinimum} \left[ (1 - x)^2 + 100 (y - x^2)^2 \right],
                         \{x, 1.5\},
                         {y, 2.1},
                         Method → "LevenbergMarquardt"
Out[127]= \{0., \{x \to 1., y \to 1.\}\}
ln[128] = FindMinimum (1 - x)^2 + 100 (y - x^2)^2
                         {x, Random[]},
                         {y, Random[]},
                         Method → "LevenbergMarquardt"
Out[128]= \{0., \{x \to 1., y \to 1.\}\}
ln[129]:= i = 0;
In[130]:= pts = Reap[FindMinimum[
              (1-x)^2 + 100 (y-x^2)^2,
              \{x, 0.1\}, \{y, 0.1\},
              Method → "LevenbergMarquardt",
              StepMonitor \Rightarrow {Sow[{x, y}], i++}
             ]][[2, 1]];
       Print["Potrzeba ", i, " krokow."];
       pts = Join[{{-1.2, 1}}, pts];
       Potrzeba 9 krokow.
```

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