

```
In[•]:= f[x_, y_] = 100 * (y - x^2) ^2 + (a - x) ^2;  
grad = D[f[x, y], {{x, y}}];  
min = Solve[grad == {0, 0}, {x, y}]  
f[x, y] /. {x -> min[[1, 1, 2]], y -> min[[1, 2, 2]]}
```

```
Out[•]= {{x -> a, y -> a^2}}
```

```
Out[•]= 0
```