|  |  |  |  |
| --- | --- | --- | --- |
| Function | learning\_rate | start\_point | required count of steps |
| y = x^2 | 10 | 10 | impossible |
| y = x^2 | 1 | 10 | impossible |
| y = x^2 | 0.1 | 10 | 31 |
| y = x^2 | 0.01 | 10 | 342 |
| y = x^2 | 0.001 | 10 | we can find minimum but it will be not in given segment(about 0.599)in the 1406 steps |
| y = x^2 | 0.0001 | 10 | impossible |
| y = x^2 | 10 | 5 | impossible |
| y = x^2 | 1 | 5 | impossible |
| y = x^2 | 0.1 | 5 | 28 |
| y = x^2 | 0.01 | 5 | 308 |
| y = x^2 | 0.001 | 5 | we can find minimum but it will be not in given segment(about 0.598)in the 1060 steps |
| y = x^2 | 0.0001 | 5 | impossible |
| y = sqrt(|x|) | 10 | 10 | 30 |
| y = sqrt(|x|) | 1 | 10 | 66 |
| y = sqrt(|x|) | 0.1 | 10 | 423 |
| y = sqrt(|x|) | 0.01 | 10 | impossible |
| y = sqrt(|x|) | 0.001 | 10 | impossible |
| y = sqrt(|x|) | 0.0001 | 10 | impossible |
| y = sqrt(|x|) | 10 | 5 | 1308 |
| y = sqrt(|x|) | 1 | 5 | 740 |
| y = sqrt(|x|) | 0.1 | 5 | 164 |
| y = sqrt(|x|) | 0.01 | 5 | impossible |
| y = sqrt(|x|) | 0.001 | 5 | impossible |
| y = sqrt(|x|) | 0.0001 | 5 | impossible |