Yura Duda / Newton

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Yura Duda / Newton

Function: newton('-4*x - 2*y+x^2+y^2 + 5',[4,5],['x','y'])
@home:-$ F'
[2*x - 4,2*(y - 1)]
@home:-$ Hesse
| 2 | | 0 |
| 0 | | 2 |
@home:-$ Iteration
$ = Hesse(0)
| 2 | | 0 |
| 0 | | 2 |
$ = Inverse Hesse(0)
| 0.5 | | 0 |
| 0 | 10.5 |
$ = x0
[4,5]
$ = Hesse(1)
| 2 | | 0 |
| 0 | | 2 |
$ = Inverse Hesse(0)
| 0.5 | | 0 |
| 0 | 0 | 0.5 |
$ = x0
[4,5]
$ = Hesse(1)
| 2 | | 0 |
| 0 | 0 | 2 |
$ = Inverse Hesse(1)
| 0 | 0 | 2 |
$ = Inverse Hesse(1)
| 0 | 10.5 |
$ = x1
| [2,1]
@home:-$ Result
| [2,1]

Function: newton('-4*x - 2*y+x^2+y^2 + 5',[4,5],['x','y'])
[2,1]
Function: newton('-4*x - 2*y+x^2+y^2 + 5',[4,5],['x',y'])
@home:-$ F'
[2*x - 4,2*(y - 1)]
@home:-$ Hesse
[2 | | 0 |
[0 | | 2 |
[0 | 0 | | 2 |
[0 | 0 | | 2 |
[0 | 0 | | 2 |
[0 | 0 | | 2 |
[0 | 0 | | 2 |
[0 | 0 | 0 |
[0 | 5 | | 0 |
[0 | 1 | 0 |
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