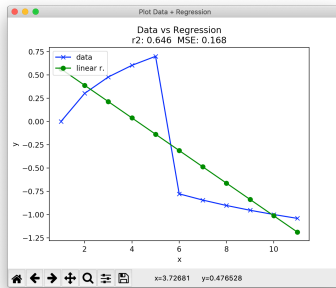


Example 3: 2 different log functions.

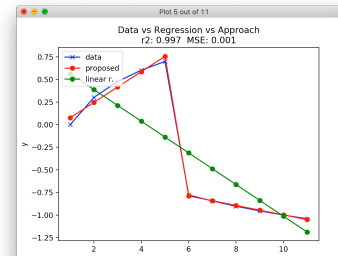
Solving with SML with left = LinearRegression and right=LinearRegression



x	y
1	0.00
2	0.30
3	0.48
4	0.60
5	0.70
6	-0.78
7	-0.85
8	-0.90
9	-0.95
10	-1.00
11	-1.04

$y = \log(x)$

$y = \log(1/x)$

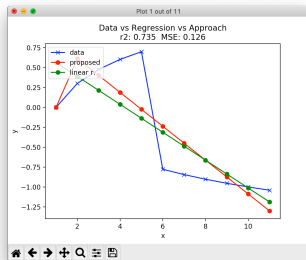


Solution:

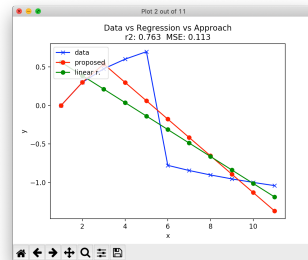
Algorithm applied once

Output: 2 linear regressions (cut off $X[:,0] \leq 5$
r2 from 0.646 to 0.997

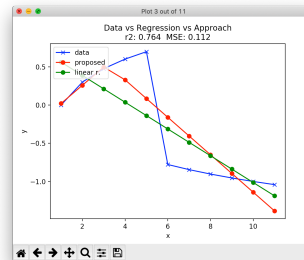
First (and only) Run:



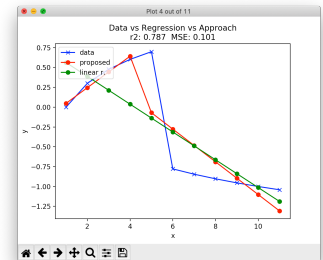
Iteration 1
r2: 0.734
LEFT: $0x + 0$
RIGHT: $-0.212x + 1.037$



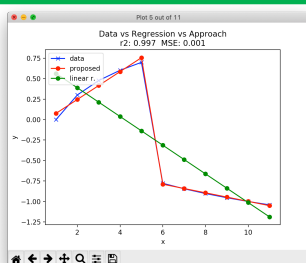
Iteration 2
r2: 0.762
LEFT: $0.301x - 0.301$
RIGHT: $-0.238x + 1.2537$



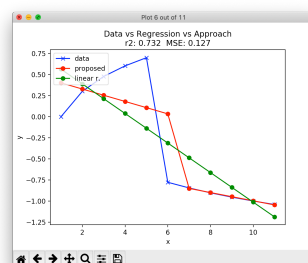
Iteration 3
r2: 0.763
LEFT: $0.238x - 0.2177$
RIGHT: $-0.245x + 1.310$



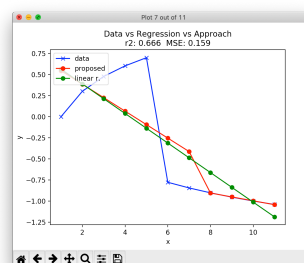
Iteration 4
r2: 0.787
LEFT: $0.198x - 0.1505$
RIGHT: $-0.206x + 0.96$



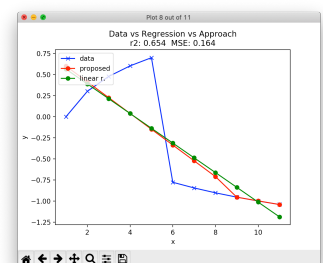
Iteration 5
r2: 0.9968
LEFT: $0.169x - 0.093$
RIGHT: $-0.052x - 0.475$



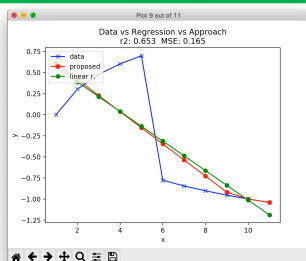
Iteration 6
r2: 0.732
LEFT: $-0.073x + 0.474$
RIGHT: $-0.0489x - 0.508$



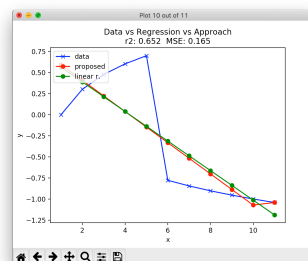
Iteration 7
r2: 0.665
LEFT: $-0.1597x + 0.704$
RIGHT: $-0.046x - 0.537$



Iteration 8
r2: 0.654
LEFT: $-0.187x + 0.786$
RIGHT: $-0.043x - 0.562$



Iteration 9
r2: 0.653
LEFT: $-0.19x + 0.7987$
RIGHT: $-0.04x - 0.586$



Iteration 10
r2: 0.6518
LEFT: $-0.184x + 0.777$
RIGHT: $0x - 1.04$