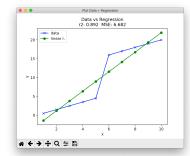
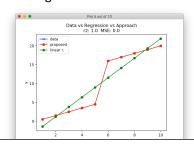
Example 1: Easy 2 different linear functions. X.shape = (10,1) and Y.shape = (10,).

Solving with SML with left = LinearRegression and right=LinearRegression







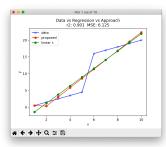
Solution:

Algorithm applied once

Output: 2 linear regressions (cut off X[:,0] <= 5

r2 from 0.89 to 1.00

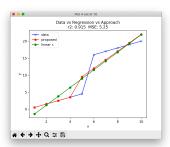
First (and only) Run:



+ > + Q = 🖺

Data vs Regression vs Approach r2: 0.905 MSE: 5.906

+ > + Q = B



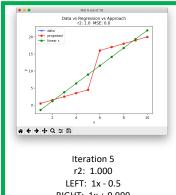
Iteration 1 r2: 0.901 LEFT: 0x + 0.5 RIGHT: 2.75x - 5.166

Iteration 2 r2: 0.9048 LEFT: 1x - 0.499 RIGHT: 2.875x - 6.125

Iteration 3 r2: 0.9048 LEFT: 1x - 0.499 RIGHT: 2.875x - 6.125

Data vs Regression vs Approach r2: 0.905 MSE: 5.906

Iteration 4 r2: 0.915 LEFT: 1x - 0.500 RIGHT: 2.5x - 3.0



Data vs Regression vs Approach r2: 0.915 MSE: 5.25 # **+ > +** Q = B

+ + + Q = B

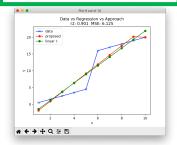
Data vs Regression vs Approach r2: 0.905 MSE: 5.906 # **+ >** + Q = 🖺

RIGHT: 1x + 9.999

Iteration 6 r2: 0.915 LEFT: 2.5x - 4.0 RIGHT: 1x + 9.999

Iteration 7 r2: 0.9048 LEFT: 2.875x - 4.999 RIGHT: 1x + 10.000

Iteration 8 r2: 0.9048 LEFT: 2.875x - 4.999 RIGHT: 1x + 10.000



Iteration 9 r2: 0.901 LEFT: 2.75x - 4.583 RIGHT: 0x + 20.0