

```
C:\Python39\python.exe "D:\DLLab\Practical 4\src\main.py"
0. Loss = [[0.01498132 0.06520722 0.06451771]],xi = [0.
1 0.2 0.3], xi_hat = [0.31199993 0.64229136 0.73994673]
1. Loss = [[0.01493544 0.06470578 0.06411124]],xi = [0.
1 0.2 0.3], xi_hat = [0.311675 0.6405875 0.73855869]
2. Loss = [[0.01488973 0.06420943 0.06370764]],xi = [0.
1 0.2 0.3], xi_hat = [0.31135084 0.6388944 0.73717606]
3. Loss = [[0.01484419 0.06371812 0.06330688]],xi = [0.
1 0.2 0.3], xi_hat = [0.31102744 0.63721202 0.73579886]
4. Loss = [[0.01479884 0.06323178 0.06290896]],xi = [0.
1 0.2 0.3], xi_hat = [0.3107048 0.6355403 0.73442709]
5. Loss = [[0.01475366 0.06275038 0.06251387]],xi = [0.
1 0.2 0.3], xi_hat = [0.31038292 0.63387918 0.73306075]
6. Loss = [[0.01470865 0.06227386 0.06212159]],xi = [0.
1 0.2 0.3], xi_hat = [0.31006179 0.63222861 0.73169985]
7. Loss = [[0.01466382 0.06180216 0.0617321]],xi = [0.
1 0.2 0.3], xi_hat = [0.30974142 0.63058853 0.73034439]
8. Loss = [[0.01461916 0.06133524 0.06134539]],xi = [0.
1 0.2 0.3], xi_hat = [0.3094218 0.62895888 0.72899439]
9. Loss = [[0.01457468 0.06087304 0.06096146]],xi = [0.
1 0.2 0.3], xi_hat = [0.30910293 0.6273396 0.72764983]
10. Loss = [[0.01453036 0.06041552 0.06058028]],xi = [0.
1 0.2 0.3], xi_hat = [0.3087848 0.62573063 0.72631072]
]
11. Loss = [[0.01448622 0.05996263 0.06020184]],xi = [0.
1 0.2 0.3], xi_hat = [0.30846743 0.62413191 0.72497707]
]
12. Loss = [[0.01444225 0.0595143 0.05982612]],xi = [0.
1 0.2 0.3], xi_hat = [0.3081508 0.62254338 0.72364887]
]
13. Loss = [[0.01439845 0.0590705 0.05945312]],xi = [0.
1 0.2 0.3], xi_hat = [0.30783492 0.62096498 0.72232611]
]
14. Loss = [[0.01435482 0.05863118 0.05908281]],xi = [0.
1 0.2 0.3], xi_hat = [0.30751978 0.61939665 0.72100881]
]
15. Loss = [[0.01431136 0.05819629 0.05871518]],xi = [0.
1 0.2 0.3], xi_hat = [0.30720538 0.61783832 0.71969695]
]
16. Loss = [[0.01426806 0.05776577 0.05835022]],xi = [0.
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.1 0.2 0.3], xi_hat = [0.30689172 0.61628993 0.71839054
]
17. Loss = [[0.01422493 0.05733958 0.0579879 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.3065788 0.61475142 0.71708957
]
18. Loss = [[0.01418197 0.05691767 0.05762823]],xi = [0
.1 0.2 0.3], xi_hat = [0.30626662 0.61322273 0.71579404
]
19. Loss = [[0.01413918 0.0565 0.05727117]],xi = [0
.1 0.2 0.3], xi_hat = [0.30595518 0.61170378 0.71450393
]
20. Loss = [[0.01409655 0.05608652 0.05691672]],xi = [0
.1 0.2 0.3], xi_hat = [0.30564447 0.61019453 0.71321925
]
21. Loss = [[0.01405409 0.05567717 0.05656485]],xi = [0
.1 0.2 0.3], xi_hat = [0.3053345 0.6086949 0.71193999
]
22. Loss = [[0.01401178 0.05527193 0.05621556]],xi = [0
.1 0.2 0.3], xi_hat = [0.30502525 0.60720483 0.71066615
]
23. Loss = [[0.01396965 0.05487072 0.05586883]],xi = [0
.1 0.2 0.3], xi_hat = [0.30471674 0.60572426 0.70939771
]
24. Loss = [[0.01392767 0.05447353 0.05552464]],xi = [0
.1 0.2 0.3], xi_hat = [0.30440896 0.60425312 0.70813467
]
25. Loss = [[0.01388586 0.05408029 0.05518297]],xi = [0
.1 0.2 0.3], xi_hat = [0.30410191 0.60279134 0.70687702
]
26. Loss = [[0.01384421 0.05369096 0.05484381]],xi = [0
.1 0.2 0.3], xi_hat = [0.30379558 0.60133887 0.70562475
]
27. Loss = [[0.01380272 0.05330551 0.05450715]],xi = [0
.1 0.2 0.3], xi_hat = [0.30348999 0.59989563 0.70437785
]
28. Loss = [[0.0137614 0.05292388 0.05417296]],xi = [0
.1 0.2 0.3], xi_hat = [0.30318511 0.59846157 0.70313631
]
29. Loss = [[0.01372023 0.05254603 0.05384124]],xi = [0
.1 0.2 0.3], xi_hat = [0.30288096 0.59703662 0.70190013
]
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30. Loss = [[0.01367922 0.05217192 0.05351196]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30257754 0.59562072 0.70066928  
]  
31. Loss = [[0.01363837 0.0518015 0.05318511]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30227483 0.59421379 0.69944377  
]  
32. Loss = [[0.01359768 0.05143475 0.05286067]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30197285 0.59281578 0.69822358  
]  
33. Loss = [[0.01355714 0.0510716 0.05253863]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30167158 0.59142662 0.69700869  
]  
34. Loss = [[0.01351676 0.05071203 0.05221897]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30137104 0.59004625 0.69579909  
]  
35. Loss = [[0.01347654 0.05035598 0.05190168]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30107121 0.58867461 0.69459478  
]  
36. Loss = [[0.01343648 0.05000343 0.05158674]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30077209 0.58731163 0.69339574  
]  
37. Loss = [[0.01339657 0.04965433 0.05127412]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30047369 0.58595724 0.69220195  
]  
38. Loss = [[0.01335681 0.04930864 0.05096383]],xi = [0  
.1 0.2 0.3], xi_hat = [0.30017601 0.58461138 0.6910134  
]  
39. Loss = [[0.01331721 0.04896632 0.05065583]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29987903 0.583274 0.68983008  
]  
40. Loss = [[0.01327776 0.04862733 0.05035012]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29958277 0.58194503 0.68865197  
]  
41. Loss = [[0.01323847 0.04829164 0.05004667]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29928722 0.5806244 0.68747906  
]  
42. Loss = [[0.01319932 0.04795921 0.04974548]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29899238 0.57931205 0.68631134  
]  
43. Loss = [[0.01316033 0.04763 0.04944653]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29869824 0.57800792 0.68514878
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]
44. Loss = [[0.01312149 0.04730397 0.04914979]],xi = [0
.1 0.2 0.3], xi_hat = [0.29840481 0.57671195 0.68399137
]
45. Loss = [[0.0130828 0.04698108 0.04885526]],xi = [0
.1 0.2 0.3], xi_hat = [0.29811209 0.57542408 0.6828391
]
46. Loss = [[0.01304426 0.04666131 0.04856292]],xi = [0
.1 0.2 0.3], xi_hat = [0.29782007 0.57414425 0.68169195
]
47. Loss = [[0.01300587 0.0463446 0.04827274]],xi = [0
.1 0.2 0.3], xi_hat = [0.29752875 0.57287238 0.68054991
]
48. Loss = [[0.01296763 0.04603094 0.04798473]],xi = [0
.1 0.2 0.3], xi_hat = [0.29723814 0.57160844 0.67941295
]
49. Loss = [[0.01292953 0.04572029 0.04769885]],xi = [0
.1 0.2 0.3], xi_hat = [0.29694822 0.57035234 0.67828106
]
50. Loss = [[0.01289159 0.0454126 0.0474151 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.29665901 0.56910404 0.67715422
]
51. Loss = [[0.01285379 0.04510784 0.04713346]],xi = [0
.1 0.2 0.3], xi_hat = [0.29637049 0.56786347 0.67603243
]
52. Loss = [[0.01281614 0.04480599 0.04685391]],xi = [0
.1 0.2 0.3], xi_hat = [0.29608267 0.56663057 0.67491565
]
53. Loss = [[0.01277863 0.04450701 0.04657644]],xi = [0
.1 0.2 0.3], xi_hat = [0.29579555 0.56540529 0.67380387
]
54. Loss = [[0.01274127 0.04421086 0.04630104]],xi = [0
.1 0.2 0.3], xi_hat = [0.29550912 0.56418757 0.67269707
]
55. Loss = [[0.01270406 0.04391752 0.04602767]],xi = [0
.1 0.2 0.3], xi_hat = [0.29522339 0.56297734 0.67159524
]
56. Loss = [[0.01266699 0.04362694 0.04575634]],xi = [0
.1 0.2 0.3], xi_hat = [0.29493834 0.56177456 0.67049836
]
57. Loss = [[0.01263006 0.04333911 0.04548703]],xi = [0
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.1 0.2 0.3], xi_hat = [0.29465399 0.56057915 0.66940641
]
58. Loss = [[0.01259328 0.04305398 0.04521972]],xi = [0
.1 0.2 0.3], xi_hat = [0.29437033 0.55939107 0.66831936
]
59. Loss = [[0.01255663 0.04277153 0.04495439]],xi = [0
.1 0.2 0.3], xi_hat = [0.29408736 0.55821025 0.66723721
]
60. Loss = [[0.01252014 0.04249172 0.04469103]],xi = [0
.1 0.2 0.3], xi_hat = [0.29380508 0.55703665 0.66615993
]
61. Loss = [[0.01248378 0.04221453 0.04442963]],xi = [0
.1 0.2 0.3], xi_hat = [0.29352348 0.5558702 0.66508751
]
62. Loss = [[0.01244756 0.04193993 0.04417017]],xi = [0
.1 0.2 0.3], xi_hat = [0.29324257 0.55471085 0.66401992
]
63. Loss = [[0.01241149 0.04166788 0.04391263]],xi = [0
.1 0.2 0.3], xi_hat = [0.29296234 0.55355854 0.66295715
]
64. Loss = [[0.01237555 0.04139836 0.043657 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.29268279 0.55241322 0.66189917
]
65. Loss = [[0.01233976 0.04113134 0.04340327]],xi = [0
.1 0.2 0.3], xi_hat = [0.29240393 0.55127484 0.66084597
]
66. Loss = [[0.0123041 0.04086678 0.04315142]],xi = [0
.1 0.2 0.3], xi_hat = [0.29212574 0.55014333 0.65979753
]
67. Loss = [[0.01226858 0.04060467 0.04290144]],xi = [0
.1 0.2 0.3], xi_hat = [0.29184824 0.54901865 0.65875383
]
68. Loss = [[0.0122332 0.04034497 0.0426533 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.29157141 0.54790074 0.65771485
]
69. Loss = [[0.01219796 0.04008766 0.04240701]],xi = [0
.1 0.2 0.3], xi_hat = [0.29129526 0.54678955 0.65668056
]
70. Loss = [[0.01216285 0.03983271 0.04216253]],xi = [0
.1 0.2 0.3], xi_hat = [0.29101979 0.54568502 0.65565096
]
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71. Loss = [[0.01212788 0.03958009 0.04191987]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29074498 0.5445871 0.65462601  
]  
72. Loss = [[0.01209305 0.03932978 0.041679 ]],xi = [0  
.1 0.2 0.3], xi_hat = [0.29047086 0.54349575 0.65360571  
]  
73. Loss = [[0.01205835 0.03908174 0.04143991]],xi = [0  
.1 0.2 0.3], xi_hat = [0.2901974 0.54241091 0.65259002  
]  
74. Loss = [[0.01202379 0.03883596 0.04120258]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28992461 0.54133252 0.65157894  
]  
75. Loss = [[0.01198936 0.03859241 0.04096701]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28965249 0.54026055 0.65057243  
]  
76. Loss = [[0.01195506 0.03835107 0.04073317]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28938104 0.53919493 0.64957048  
]  
77. Loss = [[0.0119209 0.0381119 0.04050106]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28911026 0.53813561 0.64857308  
]  
78. Loss = [[0.01188687 0.03787488 0.04027066]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28884014 0.53708256 0.64758019  
]  
79. Loss = [[0.01185297 0.03764 0.04004196]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28857068 0.53603571 0.6465918  
]  
80. Loss = [[0.0118192 0.03740722 0.03981494]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28830189 0.53499503 0.64560789  
]  
81. Loss = [[0.01178556 0.03717653 0.03958959]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28803376 0.53396045 0.64462843  
]  
82. Loss = [[0.01175206 0.03694789 0.03936589]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28776628 0.53293194 0.64365342  
]  
83. Loss = [[0.01171868 0.03672129 0.03914384]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28749947 0.53190944 0.64268282  
]  
84. Loss = [[0.01168544 0.03649671 0.03892342]],xi = [0  
.1 0.2 0.3], xi_hat = [0.28723331 0.53089291 0.64171662
```

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]
85. Loss = [[0.01165232 0.03627411 0.03870461]],xi = [0
.1 0.2 0.3], xi_hat = [0.28696781 0.5298823 0.6407548
]
86. Loss = [[0.01161933 0.03605349 0.03848741]],xi = [0
.1 0.2 0.3], xi_hat = [0.28670296 0.52887757 0.63979733
]
87. Loss = [[0.01158647 0.03583481 0.0382718 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.28643877 0.52787867 0.6388442
]
88. Loss = [[0.01155374 0.03561805 0.03805776]],xi = [0
.1 0.2 0.3], xi_hat = [0.28617523 0.52688555 0.63789539
]
89. Loss = [[0.01152113 0.0354032 0.0378453 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.28591233 0.52589816 0.63695087
]
90. Loss = [[0.01148865 0.03519024 0.03763438]],xi = [0
.1 0.2 0.3], xi_hat = [0.28565009 0.52491647 0.63601062
]
91. Loss = [[0.0114563 0.03497913 0.037425 ]],xi = [0
.1 0.2 0.3], xi_hat = [0.28538849 0.52394043 0.63507463
]
92. Loss = [[0.01142407 0.03476987 0.03721715]],xi = [0
.1 0.2 0.3], xi_hat = [0.28512754 0.52296999 0.63414287
]
93. Loss = [[0.01139197 0.03456243 0.03701082]],xi = [0
.1 0.2 0.3], xi_hat = [0.28486724 0.52200511 0.63321533
]
94. Loss = [[0.01135999 0.03435679 0.03680599]],xi = [0
.1 0.2 0.3], xi_hat = [0.28460758 0.52104575 0.63229198
]
95. Loss = [[0.01132813 0.03415293 0.03660265]],xi = [0
.1 0.2 0.3], xi_hat = [0.28434856 0.52009186 0.63137281
]
96. Loss = [[0.0112964 0.03395084 0.03640078]],xi = [0
.1 0.2 0.3], xi_hat = [0.28409018 0.51914341 0.63045778
]
97. Loss = [[0.01126479 0.03375049 0.03620038]],xi = [0
.1 0.2 0.3], xi_hat = [0.28383244 0.51820034 0.62954689
]
98. Loss = [[0.0112333 0.03355186 0.03600144]],xi = [0
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.1 0.2 0.3], xi_hat = [0.28357534 0.51726262 0.62864011
]
99. Loss = [[0.01120194 0.03335493 0.03580394]],xi = [0
.1 0.2 0.3], xi_hat = [0.28331887 0.5163302 0.62773743
]
100. Loss = [[0.01117069 0.03315969 0.03560787]],xi = [
0.1 0.2 0.3], xi_hat = [0.28306304 0.51540305 0.
62683882]
101. Loss = [[0.01113957 0.03296613 0.03541322]],xi = [
0.1 0.2 0.3], xi_hat = [0.28280784 0.51448112 0.
62594425]
102. Loss = [[0.01110857 0.03277421 0.03521997]],xi = [
0.1 0.2 0.3], xi_hat = [0.28255328 0.51356437 0.
62505372]
103. Loss = [[0.01107768 0.03258392 0.03502813]],xi = [
0.1 0.2 0.3], xi_hat = [0.28229934 0.51265277 0.
62416721]
104. Loss = [[0.01104692 0.03239525 0.03483766]],xi = [
0.1 0.2 0.3], xi_hat = [0.28204604 0.51174627 0.
62328468]
105. Loss = [[0.01101628 0.03220817 0.03464857]],xi = [
0.1 0.2 0.3], xi_hat = [0.28179336 0.51084483 0.
62240613]
106. Loss = [[0.01098575 0.03202267 0.03446084]],xi = [
0.1 0.2 0.3], xi_hat = [0.28154131 0.50994841 0.
62153152]
107. Loss = [[0.01095534 0.03183874 0.03427446]],xi = [
0.1 0.2 0.3], xi_hat = [0.28128988 0.50905698 0.
62066085]
108. Loss = [[0.01092505 0.03165635 0.03408942]],xi = [
0.1 0.2 0.3], xi_hat = [0.28103908 0.5081705 0.
61979409]
109. Loss = [[0.01089488 0.03147549 0.03390571]],xi = [
0.1 0.2 0.3], xi_hat = [0.2807889 0.50728892 0.
61893123]
110. Loss = [[0.01086482 0.03129615 0.03372331]],xi = [
0.1 0.2 0.3], xi_hat = [0.28053934 0.50641222 0.
61807223]
111. Loss = [[0.01083488 0.0311183 0.03354223]],xi = [
0.1 0.2 0.3], xi_hat = [0.2802904 0.50554035 0.
61721709]
```

112. Loss = [[0.01080505 0.03094193 0.03336244]], xi = [0.1 0.2 0.3], xi\_hat = [0.28004208 0.50467327 0.61636578]

113. Loss = [[0.01077534 0.03076703 0.03318393]], xi = [0.1 0.2 0.3], xi\_hat = [0.27979437 0.50381096 0.61551829]

114. Loss = [[0.01074574 0.03059358 0.0330067]], xi = [0.1 0.2 0.3], xi\_hat = [0.27954728 0.50295337 0.61467459]

115. Loss = [[0.01071626 0.03042156 0.03283073]], xi = [0.1 0.2 0.3], xi\_hat = [0.2793008 0.50210046 0.61383466]

116. Loss = [[0.01068689 0.03025096 0.03265602]], xi = [0.1 0.2 0.3], xi\_hat = [0.27905493 0.50125221 0.61299849]

117. Loss = [[0.01065763 0.03008177 0.03248255]], xi = [0.1 0.2 0.3], xi\_hat = [0.27880968 0.50040857 0.61216605]

118. Loss = [[0.01062849 0.02991396 0.03231031]], xi = [0.1 0.2 0.3], xi\_hat = [0.27856503 0.49956951 0.61133734]

119. Loss = [[0.01059946 0.02974753 0.0321393]], xi = [0.1 0.2 0.3], xi\_hat = [0.27832099 0.498735 0.61051231]

120. Loss = [[0.01057054 0.02958246 0.0319695]], xi = [0.1 0.2 0.3], xi\_hat = [0.27807756 0.497905 0.60969097]

121. Loss = [[0.01054173 0.02941874 0.0318009]], xi = [0.1 0.2 0.3], xi\_hat = [0.27783473 0.49707947 0.60887329]

122. Loss = [[0.01051303 0.02925634 0.0316335]], xi = [0.1 0.2 0.3], xi\_hat = [0.2775925 0.49625839 0.60805924]

123. Loss = [[0.01048444 0.02909527 0.03146728]], xi = [0.1 0.2 0.3], xi\_hat = [0.27735088 0.49544172 0.60724882]

124. Loss = [[0.01045597 0.0289355 0.03130223]], xi = [0.1 0.2 0.3], xi\_hat = [0.27710985 0.49462942 0.606442]

125. Loss = [[0.0104276 0.02877702 0.03113835]], xi = [0.1 0.2 0.3], xi\_hat = [0.27686942 0.49382147 0.]

60563876]  
126. Loss = [[0.01039934 0.02861982 0.03097562]], xi = [0.1 0.2 0.3], xi\_hat = [0.2766296 0.49301783 0.  
60483908]  
127. Loss = [[0.01037119 0.02846388 0.03081404]], xi = [0.1 0.2 0.3], xi\_hat = [0.27639036 0.49221846 0.  
60404295]  
128. Loss = [[0.01034314 0.02830919 0.03065359]], xi = [0.1 0.2 0.3], xi\_hat = [0.27615172 0.49142334 0.  
60325035]  
129. Loss = [[0.01031521 0.02815574 0.03049427]], xi = [0.1 0.2 0.3], xi\_hat = [0.27591368 0.49063244 0.  
60246126]  
130. Loss = [[0.01028738 0.02800351 0.03033607]], xi = [0.1 0.2 0.3], xi\_hat = [0.27567622 0.48984572 0.  
60167566]  
131. Loss = [[0.01025966 0.0278525 0.03017897]], xi = [0.1 0.2 0.3], xi\_hat = [0.27543935 0.48906314 0.  
60089353]  
132. Loss = [[0.01023204 0.02770269 0.03002297]], xi = [0.1 0.2 0.3], xi\_hat = [0.27520308 0.48828469 0.  
60011485]  
133. Loss = [[0.01020453 0.02755406 0.02986807]], xi = [0.1 0.2 0.3], xi\_hat = [0.27496739 0.48751033 0.  
59933961]  
134. Loss = [[0.01017712 0.02740661 0.02971424]], xi = [0.1 0.2 0.3], xi\_hat = [0.27473228 0.48674003 0.  
59856778]  
135. Loss = [[0.01014982 0.02726033 0.02956148]], xi = [0.1 0.2 0.3], xi\_hat = [0.27449776 0.48597375 0.  
59779935]  
136. Loss = [[0.01012263 0.0271152 0.02940979]], xi = [0.1 0.2 0.3], xi\_hat = [0.27426382 0.48521148 0.  
59703431]  
137. Loss = [[0.01009553 0.0269712 0.02925916]], xi = [0.1 0.2 0.3], xi\_hat = [0.27403046 0.48445317 0.  
59627262]  
138. Loss = [[0.01006854 0.02682834 0.02910956]], xi = [0.1 0.2 0.3], xi\_hat = [0.27379768 0.48369881 0.  
59551428]  
139. Loss = [[0.01004166 0.02668659 0.02896101]], xi = [

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0.1 0.2 0.3], xi_hat = [0.27356547 0.48294835 0.  
59475927]  
140. Loss = [[0.01001487 0.02654595 0.02881348]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27333384 0.48220178 0.  
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141. Loss = [[0.00998819 0.0264064 0.02866698]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27310279 0.48145906 0.  
59325916]  
142. Loss = [[0.00996161 0.02626794 0.02852148]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27287231 0.48072016 0.  
59251402]  
143. Loss = [[0.00993513 0.02613054 0.02837699]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2726424 0.47998506 0.  
59177214]  
144. Loss = [[0.00990876 0.02599422 0.0282335 ]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27241307 0.47925373 0.5910335  
]  
145. Loss = [[0.00988248 0.02585894 0.02809099]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2721843 0.47852615 0.  
59029808]  
146. Loss = [[0.0098563 0.0257247 0.02794946]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27195609 0.47780227 0.  
58956587]  
147. Loss = [[0.00983022 0.02559149 0.02780891]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27172846 0.47708209 0.  
58883684]  
148. Loss = [[0.00980424 0.02545931 0.02766931]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27150138 0.47636556 0.  
58811098]  
149. Loss = [[0.00977836 0.02532813 0.02753067]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27127487 0.47565267 0.  
58738828]  
150. Loss = [[0.00975258 0.02519795 0.02739298]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27104892 0.47494338 0.  
58666871]  
151. Loss = [[0.00972689 0.02506877 0.02725623]],xi = [  
0.1 0.2 0.3], xi_hat = [0.27082353 0.47423768 0.  
58595227]  
152. Loss = [[0.00970131 0.02494056 0.02712041]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2705987 0.47353553 0.  
58523892]
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153. Loss = [[0.00967582 0.02481333 0.02698552]], xi = [0.1 0.2 0.3], xi\_hat = [0.27037443 0.47283691 0.58452866]  
154. Loss = [[0.00965042 0.02468705 0.02685154]], xi = [0.1 0.2 0.3], xi\_hat = [0.27015071 0.4721418 0.58382147]  
155. Loss = [[0.00962512 0.02456173 0.02671848]], xi = [0.1 0.2 0.3], xi\_hat = [0.26992754 0.47145017 0.58311734]  
156. Loss = [[0.00959992 0.02443735 0.02658631]], xi = [0.1 0.2 0.3], xi\_hat = [0.26970492 0.47076199 0.58241624]  
157. Loss = [[0.00957481 0.0243139 0.02645504]], xi = [0.1 0.2 0.3], xi\_hat = [0.26948286 0.47007724 0.58171816]  
158. Loss = [[0.0095498 0.02419138 0.02632466]], xi = [0.1 0.2 0.3], xi\_hat = [0.26926134 0.46939589 0.58102308]  
159. Loss = [[0.00952488 0.02406977 0.02619516]], xi = [0.1 0.2 0.3], xi\_hat = [0.26904037 0.46871792 0.580331]  
160. Loss = [[0.00950006 0.02394907 0.02606653]], xi = [0.1 0.2 0.3], xi\_hat = [0.26881995 0.46804331 0.57964188]  
161. Loss = [[0.00947533 0.02382927 0.02593876]], xi = [0.1 0.2 0.3], xi\_hat = [0.26860007 0.46737204 0.57895572]  
162. Loss = [[0.00945069 0.02371035 0.02581186]], xi = [0.1 0.2 0.3], xi\_hat = [0.26838074 0.46670407 0.5782725]  
163. Loss = [[0.00942615 0.02359232 0.02568581]], xi = [0.1 0.2 0.3], xi\_hat = [0.26816194 0.46603939 0.5775922]  
164. Loss = [[0.00940169 0.02347515 0.02556061]], xi = [0.1 0.2 0.3], xi\_hat = [0.26794369 0.46537797 0.57691482]  
165. Loss = [[0.00937733 0.02335885 0.02543624]], xi = [0.1 0.2 0.3], xi\_hat = [0.26772598 0.46471978 0.57624032]  
166. Loss = [[0.00935307 0.02324341 0.0253127 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.2675088 0.46406482 0.5755687]

]  
167. Loss = [[0.00932889 0.02312881 0.02518999]], xi = [0.1 0.2 0.3], xi\_hat = [0.26729215 0.46341305 0.57489994]  
168. Loss = [[0.0093048 0.02301505 0.0250681 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.26707604 0.46276445 0.57423403]  
169. Loss = [[0.00928081 0.02290212 0.02494702]], xi = [0.1 0.2 0.3], xi\_hat = [0.26686047 0.462119 0.57357095]  
170. Loss = [[0.0092569 0.02279002 0.02482675]], xi = [0.1 0.2 0.3], xi\_hat = [0.26664542 0.46147667 0.57291068]  
171. Loss = [[0.00923308 0.02267873 0.02470727]], xi = [0.1 0.2 0.3], xi\_hat = [0.2664309 0.46083745 0.57225321]  
172. Loss = [[0.00920935 0.02256824 0.02458859]], xi = [0.1 0.2 0.3], xi\_hat = [0.26621691 0.46020131 0.57159853]  
173. Loss = [[0.00918572 0.02245856 0.02447069]], xi = [0.1 0.2 0.3], xi\_hat = [0.26600345 0.45956824 0.57094662]  
174. Loss = [[0.00916216 0.02234966 0.02435357]], xi = [0.1 0.2 0.3], xi\_hat = [0.26579051 0.4589382 0.57029746]  
175. Loss = [[0.0091387 0.02224156 0.02423723]], xi = [0.1 0.2 0.3], xi\_hat = [0.2655781 0.45831119 0.56965104]  
176. Loss = [[0.00911533 0.02213423 0.02412165]], xi = [0.1 0.2 0.3], xi\_hat = [0.26536621 0.45768717 0.56900734]  
177. Loss = [[0.00909204 0.02202767 0.02400683]], xi = [0.1 0.2 0.3], xi\_hat = [0.26515484 0.45706613 0.56836636]  
178. Loss = [[0.00906884 0.02192187 0.02389277]], xi = [0.1 0.2 0.3], xi\_hat = [0.26494398 0.45644805 0.56772807]  
179. Loss = [[0.00904572 0.02181683 0.02377946]], xi = [0.1 0.2 0.3], xi\_hat = [0.26473365 0.45583291 0.56709247]  
180. Loss = [[0.0090227 0.02171253 0.02366689]], xi = [

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0.1 0.2 0.3], xi_hat = [0.26452383 0.45522068 0.  
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181. Loss = [[0.00899975 0.02160898 0.02355506]],xi = [  
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182. Loss = [[0.0089769 0.02150616 0.02344396]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26410573 0.45400489 0.  
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183. Loss = [[0.00895413 0.02140407 0.02333359]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26389745 0.45340129 0.  
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184. Loss = [[0.00893144 0.0213027 0.02322393]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26368968 0.45280053 0.  
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185. Loss = [[0.00890883 0.02120205 0.02311499]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26348242 0.45220259 0.  
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186. Loss = [[0.00888631 0.0211021 0.02300675]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26327567 0.45160744 0.  
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187. Loss = [[0.00886388 0.02100286 0.02289922]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26306942 0.45101508 0.  
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188. Loss = [[0.00884153 0.02090431 0.02279239]],xi = [  
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189. Loss = [[0.00881926 0.02080644 0.02268625]],xi = [  
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190. Loss = [[0.00879707 0.02070926 0.02258079]],xi = [  
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191. Loss = [[0.00877496 0.02061276 0.02247602]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26224945 0.44867305 0.  
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192. Loss = [[0.00875294 0.02051693 0.02237192]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26204571 0.4480943 0.  
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193. Loss = [[0.00873099 0.02042176 0.02226849]],xi = [  
0.1 0.2 0.3], xi_hat = [0.26184247 0.44751823 0.  
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194. Loss = [[0.00870913 0.02032725 0.02216572]], xi = [0.1 0.2 0.3], xi\_hat = [0.26163972 0.4469448 0.55787043]  
195. Loss = [[0.00868735 0.02023338 0.02206361]], xi = [0.1 0.2 0.3], xi\_hat = [0.26143746 0.44637401 0.5572758]  
196. Loss = [[0.00866565 0.02014017 0.02196216]], xi = [0.1 0.2 0.3], xi\_hat = [0.2612357 0.44580584 0.55668362]  
197. Loss = [[0.00864403 0.0200476 0.02186136]], xi = [0.1 0.2 0.3], xi\_hat = [0.26103443 0.44524026 0.55609387]  
198. Loss = [[0.00862249 0.01995565 0.0217612]], xi = [0.1 0.2 0.3], xi\_hat = [0.26083365 0.44467727 0.55550655]  
199. Loss = [[0.00860102 0.01986434 0.02166168]], xi = [0.1 0.2 0.3], xi\_hat = [0.26063335 0.44411684 0.55492162]  
200. Loss = [[0.00857964 0.01977365 0.02156279]], xi = [0.1 0.2 0.3], xi\_hat = [0.26043355 0.44355895 0.55433909]  
201. Loss = [[0.00855834 0.01968358 0.02146453]], xi = [0.1 0.2 0.3], xi\_hat = [0.26023422 0.4430036 0.55375894]  
202. Loss = [[0.00853711 0.01959412 0.0213669]], xi = [0.1 0.2 0.3], xi\_hat = [0.26003539 0.44245076 0.55318116]  
203. Loss = [[0.00851596 0.01950527 0.02126989]], xi = [0.1 0.2 0.3], xi\_hat = [0.25983703 0.44190041 0.55260574]  
204. Loss = [[0.00849489 0.01941702 0.02117349]], xi = [0.1 0.2 0.3], xi\_hat = [0.25963916 0.44135255 0.55203265]  
205. Loss = [[0.00847389 0.01932936 0.0210777]], xi = [0.1 0.2 0.3], xi\_hat = [0.25944176 0.44080715 0.5514619]  
206. Loss = [[0.00845297 0.0192423 0.02098251]], xi = [0.1 0.2 0.3], xi\_hat = [0.25924485 0.4402642 0.55089346]  
207. Loss = [[0.00843213 0.01915581 0.02088792]], xi = [0.1 0.2 0.3], xi\_hat = [0.25904841 0.43972368 0.

55032733]  
208. Loss = [[0.00841137 0.01906991 0.02079393]], xi = [0.1 0.2 0.3], xi\_hat = [0.25885245 0.43918558 0.54976349]  
209. Loss = [[0.00839068 0.01898459 0.02070053]], xi = [0.1 0.2 0.3], xi\_hat = [0.25865696 0.43864987 0.54920193]  
210. Loss = [[0.00837006 0.01889983 0.02060772]], xi = [0.1 0.2 0.3], xi\_hat = [0.25846194 0.43811656 0.54864264]  
211. Loss = [[0.00834952 0.01881564 0.02051549]], xi = [0.1 0.2 0.3], xi\_hat = [0.2582674 0.43758561 0.54808561]  
212. Loss = [[0.00832906 0.01873201 0.02042384]], xi = [0.1 0.2 0.3], xi\_hat = [0.25807332 0.43705701 0.54753082]  
213. Loss = [[0.00830867 0.01864893 0.02033275]], xi = [0.1 0.2 0.3], xi\_hat = [0.25787971 0.43653075 0.54697826]  
214. Loss = [[0.00828835 0.01856641 0.02024224]], xi = [0.1 0.2 0.3], xi\_hat = [0.25768657 0.43600682 0.54642792]  
215. Loss = [[0.00826811 0.01848443 0.02015229]], xi = [0.1 0.2 0.3], xi\_hat = [0.2574939 0.43548519 0.54587979]  
216. Loss = [[0.00824794 0.01840299 0.0200629]], xi = [0.1 0.2 0.3], xi\_hat = [0.25730169 0.43496586 0.54533386]  
217. Loss = [[0.00822784 0.01832208 0.01997407]], xi = [0.1 0.2 0.3], xi\_hat = [0.25710994 0.43444881 0.54479011]  
218. Loss = [[0.00820782 0.01824171 0.01988578]], xi = [0.1 0.2 0.3], xi\_hat = [0.25691865 0.43393402 0.54424853]  
219. Loss = [[0.00818787 0.01816186 0.01979804]], xi = [0.1 0.2 0.3], xi\_hat = [0.25672783 0.43342148 0.54370912]  
220. Loss = [[0.00816799 0.01808254 0.01971085]], xi = [0.1 0.2 0.3], xi\_hat = [0.25653746 0.43291117 0.54317185]  
221. Loss = [[0.00814819 0.01800373 0.01962419]], xi = [

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0.1 0.2 0.3], xi_hat = [0.25634755 0.43240309 0.  
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222. Loss = [[0.00812845 0.01792544 0.01953807]],xi = [  
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223. Loss = [[0.00810879 0.01784765 0.01945248]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2559691 0.43139353 0.  
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224. Loss = [[0.00808919 0.01777038 0.01936741]],xi = [  
0.1 0.2 0.3], xi_hat = [0.25578055 0.43089202 0.  
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225. Loss = [[0.00806967 0.0176936 0.01928287]],xi = [  
0.1 0.2 0.3], xi_hat = [0.25559246 0.43039268 0.  
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226. Loss = [[0.00805022 0.01761731 0.01919884]],xi = [  
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227. Loss = [[0.00803084 0.01754152 0.01911533]],xi = [  
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228. Loss = [[0.00801152 0.01746622 0.01903233]],xi = [  
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229. Loss = [[0.00799228 0.0173914 0.01894984]],xi = [  
0.1 0.2 0.3], xi_hat = [0.25484457 0.4284167 0.  
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230. Loss = [[0.00797311 0.01731705 0.01886784]],xi = [  
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0.1 0.2 0.3], xi_hat = [0.2544733 0.42744134 0.  
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0.1 0.2 0.3], xi_hat = [0.2541038 0.42647428 0.  
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0.1 0.2 0.3], xi_hat = [0.25391971 0.42599382 0.  
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235. Loss = [[0.00787826 0.0169524 0.01846529]], xi = [0.1 0.2 0.3], xi\_hat = [0.25373606 0.42551539 0.53536327]  
236. Loss = [[0.00785949 0.01688085 0.01838623]], xi = [0.1 0.2 0.3], xi\_hat = [0.25355285 0.42503899 0.5348589]  
237. Loss = [[0.00784079 0.01680975 0.01830765]], xi = [0.1 0.2 0.3], xi\_hat = [0.25337007 0.42456459 0.53435649]  
238. Loss = [[0.00782216 0.0167391 0.01822955]], xi = [0.1 0.2 0.3], xi\_hat = [0.25318773 0.42409219 0.53385603]  
239. Loss = [[0.00780359 0.0166689 0.01815191]], xi = [0.1 0.2 0.3], xi\_hat = [0.25300582 0.42362177 0.53335752]  
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241. Loss = [[0.00776666 0.01652981 0.01799803]], xi = [0.1 0.2 0.3], xi\_hat = [0.25264329 0.42268683 0.5323663]  
242. Loss = [[0.00774829 0.01646091 0.01792178]], xi = [0.1 0.2 0.3], xi\_hat = [0.25246267 0.42222229 0.53187356]  
243. Loss = [[0.00772998 0.01639245 0.01784599]], xi = [0.1 0.2 0.3], xi\_hat = [0.25228248 0.42175968 0.53138272]  
244. Loss = [[0.00771175 0.01632441 0.01777065]], xi = [0.1 0.2 0.3], xi\_hat = [0.25210271 0.42129899 0.53089378]  
245. Loss = [[0.00769357 0.0162568 0.01769575]], xi = [0.1 0.2 0.3], xi\_hat = [0.25192337 0.42084022 0.53040673]  
246. Loss = [[0.00767546 0.01618961 0.01762131]], xi = [0.1 0.2 0.3], xi\_hat = [0.25174446 0.42038334 0.52992154]  
247. Loss = [[0.00765741 0.01612283 0.0175473 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.25156596 0.41992836 0.52943823]  
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52895676]
249. Loss = [[0.00762151 0.0159905 0.0174006 ]],xi = [
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250. Loss = [[0.00760366 0.01592495 0.0173279 ]],xi = [
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251. Loss = [[0.00758586 0.0158598 0.01725563]],xi = [
0.1 0.2 0.3], xi_hat = [0.25085619 0.41812706 0.5275234
]
252. Loss = [[0.00756813 0.01579506 0.01718379]],xi = [
0.1 0.2 0.3], xi_hat = [0.25067979 0.41768134 0.
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253. Loss = [[0.00755047 0.0157307 0.01711237]],xi = [
0.1 0.2 0.3], xi_hat = [0.25050381 0.41723744 0.
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254. Loss = [[0.00753286 0.01566674 0.01704137]],xi = [
0.1 0.2 0.3], xi_hat = [0.25032824 0.41679536 0.
52610639]
255. Loss = [[0.00751532 0.01560317 0.01697078]],xi = [
0.1 0.2 0.3], xi_hat = [0.25015308 0.41635507 0.
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256. Loss = [[0.00749783 0.01553999 0.01690061]],xi = [
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257. Loss = [[0.00748041 0.01547719 0.01683085]],xi = [
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258. Loss = [[0.00746305 0.01541477 0.0167615 ]],xi = [
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259. Loss = [[0.00744575 0.01535272 0.01669255]],xi = [
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260. Loss = [[0.00742851 0.01529106 0.016624 ]],xi = [
0.1 0.2 0.3], xi_hat = [0.24928343 0.41418022 0.
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261. Loss = [[0.00741134 0.01522976 0.01655585]],xi = [
0.1 0.2 0.3], xi_hat = [0.24911072 0.4137505 0.
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262. Loss = [[0.00739422 0.01516883 0.0164881 ]],xi = [
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0.1 0.2 0.3], xi_hat = [0.24893841 0.41332251 0.  
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263. Loss = [[0.00737716 0.01510827 0.01642074]],xi = [  
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264. Loss = [[0.00736016 0.01504807 0.01635377]],xi = [  
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265. Loss = [[0.00734322 0.01498823 0.01628718]],xi = [  
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266. Loss = [[0.00732634 0.01492874 0.01622098]],xi = [  
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267. Loss = [[0.00730951 0.01486961 0.01615517]],xi = [  
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268. Loss = [[0.00729275 0.01481083 0.01608973]],xi = [  
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269. Loss = [[0.00727604 0.0147524 0.01602467]],xi = [  
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272. Loss = [[0.00722627 0.01457918 0.01583171]],xi = [  
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274. Loss = [[0.00719338 0.01446539 0.0157049 ]],xi = [  
0.1 0.2 0.3], xi_hat = [0.24690177 0.40831745 0.  
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275. Loss = [[0.00717701 0.01440899 0.01564203]],xi = [  
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276. Loss = [[0.00716071 0.01435293 0.01557953]], xi = [0.1 0.2 0.3], xi\_hat = [0.24656781 0.4075061 0.51619108]  
277. Loss = [[0.00714446 0.01429719 0.01551738]], xi = [0.1 0.2 0.3], xi\_hat = [0.24640142 0.40710279 0.51575942]  
278. Loss = [[0.00712826 0.01424178 0.01545558]], xi = [0.1 0.2 0.3], xi\_hat = [0.2462354 0.40670106 0.51532936]  
279. Loss = [[0.00711213 0.01418668 0.01539413]], xi = [0.1 0.2 0.3], xi\_hat = [0.24606977 0.40630088 0.51490088]  
280. Loss = [[0.00709604 0.01413191 0.01533303]], xi = [0.1 0.2 0.3], xi\_hat = [0.24590452 0.40590226 0.51447396]  
281. Loss = [[0.00708002 0.01407746 0.01527227]], xi = [0.1 0.2 0.3], xi\_hat = [0.24573965 0.40550519 0.51404862]  
282. Loss = [[0.00706404 0.01402332 0.01521186]], xi = [0.1 0.2 0.3], xi\_hat = [0.24557516 0.40510965 0.51362483]  
283. Loss = [[0.00704812 0.0139695 0.01515178]], xi = [0.1 0.2 0.3], xi\_hat = [0.24541105 0.40471563 0.51320259]  
284. Loss = [[0.00703226 0.01391598 0.01509204]], xi = [0.1 0.2 0.3], xi\_hat = [0.24524732 0.40432313 0.51278189]  
285. Loss = [[0.00701645 0.01386277 0.01503264]], xi = [0.1 0.2 0.3], xi\_hat = [0.24508396 0.40393214 0.51236272]  
286. Loss = [[0.0070007 0.01380987 0.01497357]], xi = [0.1 0.2 0.3], xi\_hat = [0.24492098 0.40354265 0.51194508]  
287. Loss = [[0.006985 0.01375727 0.01491483]], xi = [0.1 0.2 0.3], xi\_hat = [0.24475837 0.40315466 0.51152896]  
288. Loss = [[0.00696935 0.01370497 0.01485642]], xi = [0.1 0.2 0.3], xi\_hat = [0.24459614 0.40276814 0.51111435]  
289. Loss = [[0.00695375 0.01365297 0.01479834]], xi = [0.1 0.2 0.3], xi\_hat = [0.24443427 0.4023831 0.

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290. Loss = [[0.00693821 0.01360127 0.01474058]], xi = [0.1 0.2 0.3], xi\_hat = [0.24427278 0.40199953 0.  
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292. Loss = [[0.00690729 0.01349874 0.01462601]], xi = [0.1 0.2 0.3], xi\_hat = [0.2439509 0.40123675 0.  
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293. Loss = [[0.0068919 0.01344792 0.01456921]], xi = [0.1 0.2 0.3], xi\_hat = [0.24379051 0.40085753 0.  
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294. Loss = [[0.00687657 0.01339738 0.01451272]], xi = [0.1 0.2 0.3], xi\_hat = [0.24363048 0.40047974 0.  
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295. Loss = [[0.00686129 0.01334712 0.01445654]], xi = [0.1 0.2 0.3], xi\_hat = [0.24347082 0.40010338 0.  
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297. Loss = [[0.00683089 0.01324746 0.01434511]], xi = [0.1 0.2 0.3], xi\_hat = [0.24315259 0.3993549 0.  
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298. Loss = [[0.00681576 0.01319805 0.01428986]], xi = [0.1 0.2 0.3], xi\_hat = [0.24299402 0.39898277 0.  
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303. Loss = [[0.0067409 0.0129551 0.01401809]], xi = [

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0.1 0.2 0.3], xi_hat = [0.24220654 0.39714287 0.5050714
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304. Loss = [[0.00672608 0.01290732 0.01396463]],xi = [
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305. Loss = [[0.00671131 0.01285981 0.01391146]],xi = [
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307. Loss = [[0.00668191 0.01276556 0.01380597]],xi = [
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317. Loss = [[0.00653785 0.01230959 0.01329536]], xi = [0.1 0.2 0.3], xi\_hat = [0.24004836 0.39216862 0.49971503]

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321. Loss = [[0.00648155 0.01213405 0.01309868]], xi = [0.1 0.2 0.3], xi\_hat = [0.23944409 0.39079348 0.49823229]

322. Loss = [[0.00646759 0.01209075 0.01305016]], xi = [0.1 0.2 0.3], xi\_hat = [0.23929387 0.39045279 0.49786481]

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326. Loss = [[0.00641222 0.01191988 0.01285864]], xi = [0.1 0.2 0.3], xi\_hat = [0.2386963 0.38910218 0.49640754]

327. Loss = [[0.00639849 0.01187773 0.01281139]], xi = [0.1 0.2 0.3], xi\_hat = [0.23854774 0.38876753 0.49604635]

328. Loss = [[0.00638481 0.0118358 0.01276439]], xi = [0.1 0.2 0.3], xi\_hat = [0.23839951 0.38843408 0.49568641]

329. Loss = [[0.00637117 0.0117941 0.01271764]], xi = [0.1 0.2 0.3], xi\_hat = [0.23825161 0.38810182 0.49532769]

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0.1 0.2 0.3], xi_hat = [0.2360718  0.38325585  0.  
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375. Loss = [[0.00578922 0.01009178 0.0108078 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.23178647 0.3739981 0.  
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376. Loss = [[0.0057775 0.01005899 0.010771 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.23165293 0.37371516 0.  
47975814]  
377. Loss = [[0.00576581 0.01002635 0.01073437]], xi = [0.1 0.2 0.3], xi\_hat = [0.23151968 0.37343314 0.  
47945229]  
378. Loss = [[0.00575416 0.00999388 0.01069793]], xi = [0.1 0.2 0.3], xi\_hat = [0.23138671 0.37315205 0.  
47914742]  
379. Loss = [[0.00574254 0.00996156 0.01066167]], xi = [0.1 0.2 0.3], xi\_hat = [0.23125402 0.37287187 0.  
47884354]  
380. Loss = [[0.00573096 0.0099294 0.01062558]], xi = [0.1 0.2 0.3], xi\_hat = [0.23112161 0.37259261 0.  
47854062]  
381. Loss = [[0.00571942 0.0098974 0.01058967]], xi = [0.1 0.2 0.3], xi\_hat = [0.23098949 0.37231426 0.  
47823867]  
382. Loss = [[0.00570791 0.00986555 0.01055394]], xi = [0.1 0.2 0.3], xi\_hat = [0.23085764 0.37203681 0.  
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383. Loss = [[0.00569644 0.00983386 0.01051838]], xi = [0.1 0.2 0.3], xi\_hat = [0.23072607 0.37176027 0.  
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384. Loss = [[0.005685 0.00980232 0.01048299]], xi = [0.1 0.2 0.3], xi\_hat = [0.23059478 0.37148462 0.  
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386. Loss = [[0.00566223 0.00973971 0.01041273]], xi = [0.1 0.2 0.3], xi\_hat = [0.23033303 0.370936 0.  
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387. Loss = [[0.0056509 0.00970862 0.01037785]], xi = [0.1 0.2 0.3], xi\_hat = [0.23020257 0.37066301 0.  
47644704]  
388. Loss = [[0.00563961 0.00967769 0.01034315]], xi = [0.1 0.2 0.3], xi\_hat = [0.23007239 0.37039091 0.  
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389. Loss = [[0.00562835 0.0096469 0.01030861]], xi = [0.1 0.2 0.3], xi\_hat = [0.22994247 0.37011968 0.  
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390. Loss = [[0.00561712 0.00961626 0.01027423]], xi = [0.1 0.2 0.3], xi\_hat = [0.22981284 0.36984933 0.  
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391. Loss = [[0.00560593 0.00958577 0.01024002]], xi = [0.1 0.2 0.3], xi\_hat = [0.22968347 0.36957984 0.  
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392. Loss = [[0.00559478 0.00955543 0.01020598]], xi = [0.1 0.2 0.3], xi\_hat = [0.22955438 0.36931121 0.  
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394. Loss = [[0.00557257 0.00949517 0.01013838]], xi = [0.1 0.2 0.3], xi\_hat = [0.229297 0.36877653 0.4743994  
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395. Loss = [[0.00556152 0.00946526 0.01010483]], xi = [0.1 0.2 0.3], xi\_hat = [0.22916871 0.36851047 0.  
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396. Loss = [[0.0055505 0.00943549 0.01007143]], xi = [0.1 0.2 0.3], xi\_hat = [0.2290407 0.36824525 0.4738226  
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397. Loss = [[0.00553952 0.00940586 0.0100382 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.22891295 0.36798088 0.  
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398. Loss = [[0.00552857 0.00937637 0.01000512]], xi = [0.1 0.2 0.3], xi\_hat = [0.22878546 0.36771734 0.  
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399. Loss = [[0.00551765 0.00934702 0.0099722 ]], xi = [

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0.1 0.2 0.3], xi_hat = [0.22865825 0.36745464 0.  
47296413]  
400. Loss = [[0.00550676 0.00931781 0.00993943]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2285313 0.36719277 0.  
47267976]  
401. Loss = [[0.00549591 0.00928873 0.00990682]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22840461 0.36693173 0.  
47239627]  
402. Loss = [[0.0054851 0.0092598 0.00987437]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22827819 0.36667151 0.  
47211366]  
403. Loss = [[0.00547431 0.009231 0.00984207]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22815203 0.36641211 0.  
47183193]  
404. Loss = [[0.00546356 0.00920233 0.00980992]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22802613 0.36615353 0.  
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405. Loss = [[0.00545285 0.0091738 0.00977793]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22790049 0.36589575 0.  
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406. Loss = [[0.00544216 0.0091454 0.00974608]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22777511 0.36563879 0.  
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0.1 0.2 0.3], xi_hat = [0.22764999 0.36538262 0.  
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408. Loss = [[0.00542089 0.009089 0.00968284]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22752514 0.36512726 0.  
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409. Loss = [[0.0054103 0.009061 0.00965144]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22740054 0.36487269 0.  
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410. Loss = [[0.00539974 0.00903313 0.00962019]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22727619 0.36461892 0.  
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411. Loss = [[0.00538922 0.00900539 0.00958909]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22715211 0.36436593 0.  
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412. Loss = [[0.00537873 0.00897777 0.00955813]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22702828 0.36411373 0.  
46933515]
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413. Loss = [[0.00536827 0.00895029 0.00952732]],xi = [0.1 0.2 0.3], xi_hat = [0.2269047 0.36386232 0.46906197]
414. Loss = [[0.00535784 0.00892293 0.00949665]],xi = [0.1 0.2 0.3], xi_hat = [0.22678138 0.36361168 0.46878963]
415. Loss = [[0.00534744 0.00889569 0.00946612]],xi = [0.1 0.2 0.3], xi_hat = [0.22665831 0.36336181 0.46851812]
416. Loss = [[0.00533708 0.00886859 0.00943573]],xi = [0.1 0.2 0.3], xi_hat = [0.2265355 0.36311272 0.46824743]
417. Loss = [[0.00532674 0.0088416 0.00940549]],xi = [0.1 0.2 0.3], xi_hat = [0.22641294 0.36286439 0.46797757]
418. Loss = [[0.00531644 0.00881474 0.00937538]],xi = [0.1 0.2 0.3], xi_hat = [0.22629062 0.36261682 0.46770854]
419. Loss = [[0.00530617 0.00878801 0.00934542]],xi = [0.1 0.2 0.3], xi_hat = [0.22616856 0.36237002 0.46744031]
420. Loss = [[0.00529593 0.00876139 0.00931559]],xi = [0.1 0.2 0.3], xi_hat = [0.22604675 0.36212397 0.46717291]
421. Loss = [[0.00528572 0.0087349 0.00928591]],xi = [0.1 0.2 0.3], xi_hat = [0.22592519 0.36187868 0.46690631]
422. Loss = [[0.00527554 0.00870853 0.00925635]],xi = [0.1 0.2 0.3], xi_hat = [0.22580388 0.36163414 0.46664052]
423. Loss = [[0.00526539 0.00868228 0.00922694]],xi = [0.1 0.2 0.3], xi_hat = [0.22568281 0.36139034 0.46637553]
424. Loss = [[0.00525527 0.00865615 0.00919766]],xi = [0.1 0.2 0.3], xi_hat = [0.225562 0.36114729 0.46611134]
425. Loss = [[0.00524518 0.00863014 0.00916851]],xi = [0.1 0.2 0.3], xi_hat = [0.22544142 0.36090497 0.46584794]
426. Loss = [[0.00523513 0.00860424 0.0091395 ]],xi = [0.1 0.2 0.3], xi_hat = [0.2253211 0.36066339 0.
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46558534]  
427. Loss = [[0.0052251 0.00857846 0.00911062]], xi = [0.1 0.2 0.3], xi\_hat = [0.22520102 0.36042255 0.  
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428. Loss = [[0.0052151 0.0085528 0.00908188]], xi = [0.1 0.2 0.3], xi\_hat = [0.22508118 0.36018243 0.  
46506251]  
429. Loss = [[0.00520513 0.00852726 0.00905326]], xi = [0.1 0.2 0.3], xi\_hat = [0.22496159 0.35994304 0.  
46480226]  
430. Loss = [[0.00519519 0.00850183 0.00902478]], xi = [0.1 0.2 0.3], xi\_hat = [0.22484223 0.35970438 0.4645428  
]  
431. Loss = [[0.00518529 0.00847651 0.00899642]], xi = [0.1 0.2 0.3], xi\_hat = [0.22472312 0.35946643 0.  
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432. Loss = [[0.00517541 0.00845131 0.0089682 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.22460426 0.3592292 0.  
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433. Loss = [[0.00516556 0.00842622 0.0089401 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.22448563 0.35899269 0.  
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434. Loss = [[0.00515574 0.00840125 0.00891213]], xi = [0.1 0.2 0.3], xi\_hat = [0.22436724 0.35875688 0.  
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438. Loss = [[0.00511675 0.00830246 0.00880151]], xi = [0.1 0.2 0.3], xi\_hat = [0.22389608 0.35782069 0.  
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439. Loss = [[0.00510707 0.00827803 0.00877417]], xi = [0.1 0.2 0.3], xi\_hat = [0.22377888 0.35758839 0.  
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440. Loss = [[0.00509742 0.00825372 0.00874695]], xi = [

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0.1 0.2 0.3], xi_hat = [0.22366191 0.35735678 0.  
46199027]  
441. Loss = [[0.0050878 0.00822951 0.00871985]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22354519 0.35712586 0.  
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442. Loss = [[0.00507821 0.00820541 0.00869288]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22342869 0.35689562 0.  
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443. Loss = [[0.00506865 0.00818142 0.00866602]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22331243 0.35666606 0.  
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444. Loss = [[0.00505912 0.00815753 0.00863929]],xi = [  
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445. Loss = [[0.00504961 0.00813375 0.00861267]],xi = [  
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446. Loss = [[0.00504013 0.00811007 0.00858618]],xi = [  
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447. Loss = [[0.00503068 0.0080865 0.0085598 ]],xi = [  
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448. Loss = [[0.00502126 0.00806303 0.00853354]],xi = [  
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449. Loss = [[0.00501187 0.00803966 0.0085074 ]],xi = [  
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450. Loss = [[0.0050025 0.0080164 0.00848137]],xi = [  
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0.1 0.2 0.3], xi_hat = [0.22239068 0.35485381 0.  
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452. Loss = [[0.00498385 0.00797017 0.00842966]],xi = [  
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453. Loss = [[0.00497456 0.00794721 0.00840398]],xi = [  
0.1 0.2 0.3], xi_hat = [0.22216253 0.35440736 0.  
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454. Loss = [[0.0049653  0.00792435 0.00837841]],xi = [0.1 0.2 0.3], xi_hat = [0.2220488  0.35418511 0.45854094]
455. Loss = [[0.00495607 0.00790159 0.00835295]],xi = [0.1 0.2 0.3], xi_hat = [0.22193529 0.35396351 0.45829991]
456. Loss = [[0.00494687 0.00787892 0.00832761]],xi = [0.1 0.2 0.3], xi_hat = [0.22182201 0.35374256 0.45805958]
457. Loss = [[0.00493769 0.00785636 0.00830238]],xi = [0.1 0.2 0.3], xi_hat = [0.22170895 0.35352224 0.45781994]
458. Loss = [[0.00492854 0.00783389 0.00827726]],xi = [0.1 0.2 0.3], xi_hat = [0.22159612 0.35330256 0.45758099]
459. Loss = [[0.00491941 0.00781152 0.00825225]],xi = [0.1 0.2 0.3], xi_hat = [0.2214835 0.35308352 0.45734274]
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461. Loss = [[0.00490124 0.00776707 0.00820255]],xi = [0.1 0.2 0.3], xi_hat = [0.22125895 0.35264734 0.45686828]
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463. Loss = [[0.00488318 0.007723 0.00815329]],xi = [0.1 0.2 0.3], xi_hat = [0.22103527 0.35221366 0.45639655]
464. Loss = [[0.00487419 0.00770111 0.00812883]],xi = [0.1 0.2 0.3], xi_hat = [0.22092377 0.35199776 0.4561617]
465. Loss = [[0.00486522 0.00767931 0.00810446]],xi = [0.1 0.2 0.3], xi_hat = [0.22081248 0.35178248 0.45592752]
466. Loss = [[0.00485628 0.0076576 0.00808021]],xi = [0.1 0.2 0.3], xi_hat = [0.22070141 0.35156781 0.45569401]
467. Loss = [[0.00484736 0.00763599 0.00805606]],xi = [0.1 0.2 0.3], xi_hat = [0.22059056 0.35135376 0.
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469. Loss = [[0.00482961 0.00759304 0.00800807]],xi = [
0.1 0.2 0.3], xi_hat = [0.22036952 0.35092749 0.
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470. Loss = [[0.00482077 0.0075717 0.00798423]],xi = [
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471. Loss = [[0.00481195 0.00755045 0.0079605 ]],xi = [
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472. Loss = [[0.00480317 0.00752929 0.00793687]],xi = [
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473. Loss = [[0.0047944 0.00750822 0.00791334]],xi = [
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478. Loss = [[0.00475096 0.00740421 0.0077972 ]],xi = [
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480. Loss = [[0.00473376 0.00736321 0.00775144]],xi = [
0.1 0.2 0.3], xi_hat = [0.21916908 0.34862581 0.
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0.1 0.2 0.3], xi_hat = [0.21906122 0.34842009 0.  
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482. Loss = [[0.00471665 0.00732256 0.00770606]],xi = [  
0.1 0.2 0.3], xi_hat = [0.21895357 0.34821494 0.  
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483. Loss = [[0.00470813 0.00730236 0.00768352]],xi = [  
0.1 0.2 0.3], xi_hat = [0.21884612 0.34801037 0.  
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489. Loss = [[0.00465754 0.00718291 0.00755027]],xi = [  
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502. Loss = [[0.0045508 0.00693405 0.00727287]],xi = [0.1 0.2 0.3], xi_hat = [0.2168435 0.34422946 0.44771123]
503. Loss = [[0.00454275 0.00691544 0.00725215]],xi = [0.1 0.2 0.3], xi_hat = [0.21674011 0.34403588 0.44750067]
504. Loss = [[0.00453472 0.00689692 0.00723151]],xi = [0.1 0.2 0.3], xi_hat = [0.21663691 0.34384282 0.44729068]
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510. Loss = [[0.00448702 0.00678733 0.00710949]],xi = [
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625. Loss = [[0.00370654 0.00510956 0.00525222]],xi = [0.1 0.2 0.3], xi_hat = [0.20544959 0.32380906 0.42552553]
626. Loss = [[0.00370072 0.00509785 0.00523934]],xi = [0.1 0.2 0.3], xi_hat = [0.20536677 0.32366703 0.42537153]
627. Loss = [[0.00369491 0.00508617 0.00522651]],xi = [0.1 0.2 0.3], xi_hat = [0.20528408 0.32352533 0.42521789]
628. Loss = [[0.00368912 0.00507453 0.00521372]],xi = [0.1 0.2 0.3], xi_hat = [0.20520153 0.32338397 0.42506461]
629. Loss = [[0.00368334 0.00506294 0.00520098]],xi = [0.1 0.2 0.3], xi_hat = [0.20511913 0.32324292 0.4249117 ]
630. Loss = [[0.00367758 0.00505138 0.00518828]],xi = [0.1 0.2 0.3], xi_hat = [0.20503686 0.32310221 0.42475914]
631. Loss = [[0.00367183 0.00503987 0.00517563]],xi = [0.1 0.2 0.3], xi_hat = [0.20495474 0.32296182 0.
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42460695]
632. Loss = [[0.0036661  0.00502839 0.00516303]],xi = [
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633. Loss = [[0.00366038 0.00501696 0.00515046]],xi = [
0.1 0.2 0.3], xi_hat = [0.20479091 0.32268202 0.
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634. Loss = [[0.00365467 0.00500556 0.00513795]],xi = [
0.1 0.2 0.3], xi_hat = [0.2047092 0.3225426 0.
42415251]
635. Loss = [[0.00364898 0.00499421 0.00512548]],xi = [
0.1 0.2 0.3], xi_hat = [0.20462763 0.32240351 0.
42400174]
636. Loss = [[0.0036433 0.00498289 0.00511305]],xi = [
0.1 0.2 0.3], xi_hat = [0.2045462 0.32226473 0.
42385132]
637. Loss = [[0.00363764 0.00497161 0.00510067]],xi = [
0.1 0.2 0.3], xi_hat = [0.20446491 0.32212627 0.
42370126]
638. Loss = [[0.00363199 0.00496037 0.00508833]],xi = [
0.1 0.2 0.3], xi_hat = [0.20438375 0.32198814 0.
42355155]
639. Loss = [[0.00362635 0.00494917 0.00507603]],xi = [
0.1 0.2 0.3], xi_hat = [0.20430274 0.32185032 0.
42340218]
640. Loss = [[0.00362073 0.004938 0.00506378]],xi = [
0.1 0.2 0.3], xi_hat = [0.20422185 0.32171281 0.
42325317]
641. Loss = [[0.00361512 0.00492688 0.00505157]],xi = [
0.1 0.2 0.3], xi_hat = [0.20414111 0.32157562 0.4231045
]
642. Loss = [[0.00360953 0.00491579 0.00503941]],xi = [
0.1 0.2 0.3], xi_hat = [0.2040605 0.32143874 0.
42295617]
643. Loss = [[0.00360395 0.00490474 0.00502728]],xi = [
0.1 0.2 0.3], xi_hat = [0.20398003 0.32130218 0.4228082
]
644. Loss = [[0.00359838 0.00489373 0.0050152 ]],xi = [
0.1 0.2 0.3], xi_hat = [0.20389969 0.32116593 0.
42266056]
645. Loss = [[0.00359283 0.00488275 0.00500317]],xi = [
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0.1 0.2 0.3], xi_hat = [0.20381949 0.32102998 0.  
42251327]  
646. Loss = [[0.00358729 0.00487181 0.00499117]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20373942 0.32089435 0.  
42236632]  
647. Loss = [[0.00358176 0.00486091 0.00497922]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20365949 0.32075903 0.  
42221971]  
648. Loss = [[0.00357625 0.00485005 0.00496731]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20357969 0.32062401 0.  
42207344]  
649. Loss = [[0.00357075 0.00483922 0.00495544]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20350002 0.3204893 0.4219275  
]  
650. Loss = [[0.00356527 0.00482843 0.00494361]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20342049 0.32035489 0.  
42178191]  
651. Loss = [[0.00355979 0.00481768 0.00493182]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20334109 0.32022079 0.  
42163664]  
652. Loss = [[0.00355433 0.00480696 0.00492008]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20326183 0.320087 0.  
42149172]  
653. Loss = [[0.00354889 0.00479628 0.00490837]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20318269 0.3199535 0.  
42134712]  
654. Loss = [[0.00354346 0.00478564 0.00489671]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20310369 0.31982031 0.  
42120286]  
655. Loss = [[0.00353804 0.00477503 0.00488509]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20302482 0.31968741 0.  
42105893]  
656. Loss = [[0.00353263 0.00476445 0.00487351]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20294608 0.31955481 0.  
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657. Loss = [[0.00352724 0.00475391 0.00486196]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20286747 0.31942252 0.  
42077206]  
658. Loss = [[0.00352186 0.00474341 0.00485046]],xi = [  
0.1 0.2 0.3], xi_hat = [0.202789 0.31929052 0.  
42062912]
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659. Loss = [[0.00351649 0.00473294 0.004839 ]],xi = [0.1 0.2 0.3], xi_hat = [0.20271065 0.31915881 0.4204865]
]
660. Loss = [[0.00351114 0.00472251 0.00482758]],xi = [0.1 0.2 0.3], xi_hat = [0.20263243 0.3190274 0.42034421]
661. Loss = [[0.0035058 0.00471211 0.00481619]],xi = [0.1 0.2 0.3], xi_hat = [0.20255435 0.31889629 0.42020224]
662. Loss = [[0.00350047 0.00470175 0.00480485]],xi = [0.1 0.2 0.3], xi_hat = [0.20247639 0.31876547 0.4200606]
]
663. Loss = [[0.00349516 0.00469142 0.00479354]],xi = [0.1 0.2 0.3], xi_hat = [0.20239856 0.31863493 0.41991927]
664. Loss = [[0.00348985 0.00468112 0.00478228]],xi = [0.1 0.2 0.3], xi_hat = [0.20232086 0.3185047 0.41977827]
665. Loss = [[0.00348456 0.00467086 0.00477105]],xi = [0.1 0.2 0.3], xi_hat = [0.20224329 0.31837475 0.41963759]
666. Loss = [[0.00347929 0.00466063 0.00475986]],xi = [0.1 0.2 0.3], xi_hat = [0.20216585 0.31824509 0.41949723]
667. Loss = [[0.00347402 0.00465044 0.00474871]],xi = [0.1 0.2 0.3], xi_hat = [0.20208853 0.31811572 0.41935719]
668. Loss = [[0.00346877 0.00464028 0.0047376 ]],xi = [0.1 0.2 0.3], xi_hat = [0.20201135 0.31798663 0.41921746]
669. Loss = [[0.00346353 0.00463016 0.00472653]],xi = [0.1 0.2 0.3], xi_hat = [0.20193429 0.31785783 0.41907805]
670. Loss = [[0.00345831 0.00462006 0.00471549]],xi = [0.1 0.2 0.3], xi_hat = [0.20185735 0.31772932 0.41893896]
671. Loss = [[0.00345309 0.00461001 0.00470449]],xi = [0.1 0.2 0.3], xi_hat = [0.20178055 0.31760109 0.41880018]
672. Loss = [[0.00344789 0.00459998 0.00469353]],xi = [0.1 0.2 0.3], xi_hat = [0.20170387 0.31747315 0.
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41866171]
673. Loss = [[0.0034427  0.00458999  0.00468261]],xi = [
0.1 0.2 0.3], xi_hat = [0.20162731  0.31734548  0.
41852355]
674. Loss = [[0.00343753  0.00458003  0.00467173]],xi = [
0.1 0.2 0.3], xi_hat = [0.20155088  0.3172181   0.4183857
]
675. Loss = [[0.00343236  0.0045701   0.00466088]],xi = [
0.1 0.2 0.3], xi_hat = [0.20147458  0.317091    0.
41824817]
676. Loss = [[0.00342721  0.00456021  0.00465006]],xi = [
0.1 0.2 0.3], xi_hat = [0.2013984   0.31696418  0.
41811094]
677. Loss = [[0.00342207  0.00455034  0.00463929]],xi = [
0.1 0.2 0.3], xi_hat = [0.20132235  0.31683764  0.
41797402]
678. Loss = [[0.00341695  0.00454051  0.00462855]],xi = [
0.1 0.2 0.3], xi_hat = [0.20124642  0.31671137  0.
41783741]
679. Loss = [[0.00341183  0.00453072  0.00461785]],xi = [
0.1 0.2 0.3], xi_hat = [0.20117061  0.31658539  0.4177011
]
680. Loss = [[0.00340673  0.00452095  0.00460718]],xi = [
0.1 0.2 0.3], xi_hat = [0.20109493  0.31645967  0.4175651
]
681. Loss = [[0.00340164  0.00451122  0.00459655]],xi = [
0.1 0.2 0.3], xi_hat = [0.20101937  0.31633424  0.4174294
]
682. Loss = [[0.00339656  0.00450152  0.00458596]],xi = [
0.1 0.2 0.3], xi_hat = [0.20094394  0.31620908  0.417294
]
683. Loss = [[0.00339149  0.00449185  0.0045754 ]],xi = [
0.1 0.2 0.3], xi_hat = [0.20086863  0.31608419  0.
41715891]
684. Loss = [[0.00338644  0.00448221  0.00456488]],xi = [
0.1 0.2 0.3], xi_hat = [0.20079344  0.31595957  0.
41702411]
685. Loss = [[0.0033814   0.0044726   0.00455439]],xi = [
0.1 0.2 0.3], xi_hat = [0.20071837  0.31583522  0.
41688962]
686. Loss = [[0.00337637  0.00446302  0.00454394]],xi = [
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0.1 0.2 0.3], xi_hat = [0.20064343 0.31571115 0.  
41675542]  
687. Loss = [[0.00337135 0.00445348 0.00453353]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2005686 0.31558734 0.  
41662152]  
688. Loss = [[0.00336634 0.00444396 0.00452315]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2004939 0.31546381 0.  
41648792]  
689. Loss = [[0.00336135 0.00443448 0.0045128 ]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20041932 0.31534054 0.  
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690. Loss = [[0.00335636 0.00442503 0.00450249]],xi = [  
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691. Loss = [[0.00335139 0.0044156 0.00449221]],xi = [  
0.1 0.2 0.3], xi_hat = [0.20027052 0.3150948 0.  
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692. Loss = [[0.00334643 0.00440621 0.00448197]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2001963 0.31497233 0.  
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693. Loss = [[0.00334149 0.00439685 0.00447176]],xi = [  
0.1 0.2 0.3], xi_hat = [0.2001222 0.31485013 0.  
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694. Loss = [[0.00333655 0.00438752 0.00446158]],xi = [  
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]  
695. Loss = [[0.00333162 0.00437822 0.00445144]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19997436 0.31460651 0.  
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696. Loss = [[0.00332671 0.00436895 0.00444134]],xi = [  
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697. Loss = [[0.00332181 0.0043597 0.00443126]],xi = [  
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698. Loss = [[0.00331692 0.00435049 0.00442122]],xi = [  
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699. Loss = [[0.00331204 0.00434131 0.00441122]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19968011 0.3141224 0.  
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700. Loss = [[0.00330717 0.00433215 0.00440125]],xi = [0.1 0.2 0.3], xi_hat = [0.19960684 0.31400203 0.41490751]
701. Loss = [[0.00330232 0.00432303 0.00439131]],xi = [0.1 0.2 0.3], xi_hat = [0.19953369 0.31388191 0.41477768]
702. Loss = [[0.00329747 0.00431393 0.0043814 ]],xi = [0.1 0.2 0.3], xi_hat = [0.19946066 0.31376204 0.41464814]
703. Loss = [[0.00329264 0.00430487 0.00437152]],xi = [0.1 0.2 0.3], xi_hat = [0.19938774 0.31364243 0.41451888]
704. Loss = [[0.00328782 0.00429583 0.00436168]],xi = [0.1 0.2 0.3], xi_hat = [0.19931494 0.31352308 0.4143899 ]
705. Loss = [[0.00328301 0.00428682 0.00435187]],xi = [0.1 0.2 0.3], xi_hat = [0.19924226 0.31340398 0.4142612 ]
706. Loss = [[0.00327821 0.00427784 0.0043421 ]],xi = [0.1 0.2 0.3], xi_hat = [0.19916969 0.31328514 0.41413278]
707. Loss = [[0.00327342 0.00426889 0.00433235]],xi = [0.1 0.2 0.3], xi_hat = [0.19909724 0.31316655 0.41400464]
708. Loss = [[0.00326864 0.00425997 0.00432264]],xi = [0.1 0.2 0.3], xi_hat = [0.19902491 0.31304821 0.41387677]
709. Loss = [[0.00326388 0.00425107 0.00431296]],xi = [0.1 0.2 0.3], xi_hat = [0.19895269 0.31293012 0.41374919]
710. Loss = [[0.00325912 0.0042422 0.00430331]],xi = [0.1 0.2 0.3], xi_hat = [0.19888058 0.31281228 0.41362188]
711. Loss = [[0.00325438 0.00423336 0.00429369]],xi = [0.1 0.2 0.3], xi_hat = [0.19880859 0.3126947 0.41349485]
712. Loss = [[0.00324965 0.00422455 0.00428411]],xi = [0.1 0.2 0.3], xi_hat = [0.19873672 0.31257736 0.41336809]
713. Loss = [[0.00324492 0.00421577 0.00427455]],xi = [0.1 0.2 0.3], xi_hat = [0.19866495 0.31246026 0.
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41324161]
714. Loss = [[0.00324021 0.00420701 0.00426503]],xi = [
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]
715. Loss = [[0.00323551 0.00419829 0.00425554]],xi = [
0.1 0.2 0.3], xi_hat = [0.19852177 0.31222682 0.
41298946]
716. Loss = [[0.00323082 0.00418959 0.00424608]],xi = [
0.1 0.2 0.3], xi_hat = [0.19845035 0.31211047 0.
41286379]
717. Loss = [[0.00322615 0.00418091 0.00423665]],xi = [
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41273839]
718. Loss = [[0.00322148 0.00417227 0.00422725]],xi = [
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719. Loss = [[0.00321682 0.00416365 0.00421788]],xi = [
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0.1 0.2 0.3], xi_hat = [0.1981658 0.3116475 0.
41236382]
721. Loss = [[0.00320754 0.00414649 0.00419923]],xi = [
0.1 0.2 0.3], xi_hat = [0.19809495 0.31153236 0.
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722. Loss = [[0.00320291 0.00413795 0.00418996]],xi = [
0.1 0.2 0.3], xi_hat = [0.1980242 0.31141747 0.
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723. Loss = [[0.0031983 0.00412944 0.00418071]],xi = [
0.1 0.2 0.3], xi_hat = [0.19795357 0.31130281 0.
41199164]
724. Loss = [[0.0031937 0.00412095 0.00417149]],xi = [
0.1 0.2 0.3], xi_hat = [0.19788305 0.3111884 0.
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725. Loss = [[0.0031891 0.00411249 0.0041623 ]],xi = [
0.1 0.2 0.3], xi_hat = [0.19781263 0.31107422 0.
41174485]
726. Loss = [[0.00318452 0.00410406 0.00415315]],xi = [
0.1 0.2 0.3], xi_hat = [0.19774233 0.31096028 0.
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0.1 0.2 0.3], xi_hat = [0.19767214 0.31084658 0.  
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728. Loss = [[0.00317539 0.00408727 0.00413492]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19760206 0.31073311 0.  
41137663]  
729. Loss = [[0.00317084 0.00407892 0.00412585]],xi = [  
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730. Loss = [[0.0031663 0.00407059 0.00411681]],xi = [  
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731. Loss = [[0.00316177 0.00406229 0.0041078 ]],xi = [  
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733. Loss = [[0.00315274 0.00404576 0.00408986]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19725331 0.31016931 0.  
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734. Loss = [[0.00314824 0.00403753 0.00408093]],xi = [  
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]  
735. Loss = [[0.00314375 0.00402933 0.00407204]],xi = [  
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736. Loss = [[0.00313927 0.00402116 0.00406317]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19704536 0.30983382 0.  
41040611]  
737. Loss = [[0.0031348 0.00401301 0.00405433]],xi = [  
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738. Loss = [[0.00313034 0.00400488 0.00404552]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19690727 0.3096113 0.  
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739. Loss = [[0.00312589 0.00399678 0.00403674]],xi = [  
0.1 0.2 0.3], xi_hat = [0.19683839 0.30950039 0.  
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741. Loss = [[0.00311702 0.00398065 0.00401925]], xi = [0.1 0.2 0.3], xi\_hat = [0.19670094 0.30927925 0.40980782]

742. Loss = [[0.00311261 0.00397262 0.00401055]], xi = [0.1 0.2 0.3], xi\_hat = [0.19663238 0.30916902 0.40968891]

743. Loss = [[0.0031082 0.00396462 0.00400188]], xi = [0.1 0.2 0.3], xi\_hat = [0.19656392 0.30905901 0.40957026]

744. Loss = [[0.0031038 0.00395665 0.00399324]], xi = [0.1 0.2 0.3], xi\_hat = [0.19649557 0.30894923 0.40945185]

745. Loss = [[0.00309941 0.00394869 0.00398462]], xi = [0.1 0.2 0.3], xi\_hat = [0.19642732 0.30883968 0.40933369]

746. Loss = [[0.00309503 0.00394076 0.00397603]], xi = [0.1 0.2 0.3], xi\_hat = [0.19635918 0.30873034 0.40921578]

747. Loss = [[0.00309066 0.00393286 0.00396747]], xi = [0.1 0.2 0.3], xi\_hat = [0.19629115 0.30862123 0.40909811]

748. Loss = [[0.0030863 0.00392498 0.00395893]], xi = [0.1 0.2 0.3], xi\_hat = [0.19622322 0.30851235 0.40898069]

749. Loss = [[0.00308195 0.00391712 0.00395042]], xi = [0.1 0.2 0.3], xi\_hat = [0.1961554 0.30840368 0.40886352]

750. Loss = [[0.00307761 0.00390929 0.00394194]], xi = [0.1 0.2 0.3], xi\_hat = [0.19608768 0.30829524 0.40874658]

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880. Loss = [[0.00258673 0.00306267 0.00303216]],xi = [0.1 0.2 0.3], xi\_hat = [0.18809195 0.29585411 0.  
39537541]  
881. Loss = [[0.00258345 0.00305727 0.00302641]],xi = [0.1 0.2 0.3], xi\_hat = [0.18803608 0.29576963 0.  
39528496]  
882. Loss = [[0.00258018 0.00305189 0.00302067]],xi = [0.1 0.2 0.3], xi\_hat = [0.18798029 0.29568531 0.  
39519466]  
883. Loss = [[0.00257691 0.00304653 0.00301496]],xi = [0.1 0.2 0.3], xi\_hat = [0.18792457 0.29560114 0.  
39510454]  
884. Loss = [[0.00257365 0.00304117 0.00300926]],xi = [0.1 0.2 0.3], xi\_hat = [0.18786893 0.29551712 0.  
39501458]  
885. Loss = [[0.0025704 0.00303583 0.00300357]],xi = [0.1 0.2 0.3], xi\_hat = [0.18781337 0.29543325 0.  
39492478]  
886. Loss = [[0.00256715 0.00303051 0.0029979 ]],xi = [0.1 0.2 0.3], xi\_hat = [0.18775788 0.29534953 0.  
39483515]  
887. Loss = [[0.00256391 0.0030252 0.00299225]],xi = [0.1 0.2 0.3], xi\_hat = [0.18770247 0.29526595 0.  
39474569]  
888. Loss = [[0.00256067 0.0030199 0.00298661]],xi = [0.1 0.2 0.3], xi\_hat = [0.18764714 0.29518253 0.  
39465639]  
889. Loss = [[0.00255745 0.00301462 0.00298099]],xi = [0.1 0.2 0.3], xi\_hat = [0.18759189 0.29509925 0.  
39456725]  
890. Loss = [[0.00255423 0.00300935 0.00297538]],xi = [0.1 0.2 0.3], xi\_hat = [0.18753671 0.29501613 0.  
39447827]  
891. Loss = [[0.00255101 0.0030041 0.00296979]],xi = [

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```
0.1 0.2 0.3], xi_hat = [0.18748161 0.29493315 0.  
39438946]  
892. Loss = [[0.0025478 0.00299886 0.00296421]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18742658 0.29485031 0.  
39430081]  
893. Loss = [[0.0025446 0.00299363 0.00295865]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18737163 0.29476763 0.  
39421232]  
894. Loss = [[0.00254141 0.00298842 0.00295311]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18731676 0.29468509 0.394124  
]  
895. Loss = [[0.00253822 0.00298322 0.00294758]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18726196 0.29460269 0.  
39403583]  
896. Loss = [[0.00253503 0.00297804 0.00294206]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18720724 0.29452044 0.  
39394782]  
897. Loss = [[0.00253186 0.00297287 0.00293657]],xi = [  
0.1 0.2 0.3], xi_hat = [0.1871526 0.29443834 0.  
39385998]  
898. Loss = [[0.00252869 0.00296771 0.00293108]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18709803 0.29435638 0.  
39377229]  
899. Loss = [[0.00252553 0.00296256 0.00292561]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18704353 0.29427456 0.  
39368476]  
900. Loss = [[0.00252237 0.00295743 0.00292016]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18698911 0.29419289 0.3935974  
]  
901. Loss = [[0.00251922 0.00295232 0.00291472]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18693476 0.29411137 0.  
39351019]  
902. Loss = [[0.00251607 0.00294721 0.00290929]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18688049 0.29402998 0.  
39342313]  
903. Loss = [[0.00251294 0.00294212 0.00290388]],xi = [  
0.1 0.2 0.3], xi_hat = [0.1868263 0.29394874 0.  
39333624]  
904. Loss = [[0.0025098 0.00293704 0.00289849]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18677218 0.29386764 0.3932495  
]
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905. Loss = [[0.00250668 0.00293198 0.00289311]],xi = [0.1 0.2 0.3], xi_hat = [0.18671813 0.29378668 0.39316292]
906. Loss = [[0.00250356 0.00292693 0.00288774]],xi = [0.1 0.2 0.3], xi_hat = [0.18666415 0.29370587 0.3930765]
907. Loss = [[0.00250045 0.00292189 0.00288239]],xi = [0.1 0.2 0.3], xi_hat = [0.18661025 0.2936252 0.39299023]
908. Loss = [[0.00249734 0.00291687 0.00287706]],xi = [0.1 0.2 0.3], xi_hat = [0.18655643 0.29354466 0.39290411]
909. Loss = [[0.00249424 0.00291186 0.00287174]],xi = [0.1 0.2 0.3], xi_hat = [0.18650268 0.29346427 0.39281816]
910. Loss = [[0.00249114 0.00290686 0.00286643]],xi = [0.1 0.2 0.3], xi_hat = [0.186449 0.29338402 0.39273235]
911. Loss = [[0.00248805 0.00290187 0.00286114]],xi = [0.1 0.2 0.3], xi_hat = [0.18639539 0.2933039 0.3926467]
912. Loss = [[0.00248497 0.0028969 0.00285586]],xi = [0.1 0.2 0.3], xi_hat = [0.18634186 0.29322393 0.39256121]
913. Loss = [[0.0024819 0.00289194 0.0028506]],xi = [0.1 0.2 0.3], xi_hat = [0.1862884 0.2931441 0.39247586]
914. Loss = [[0.00247883 0.00288699 0.00284535]],xi = [0.1 0.2 0.3], xi_hat = [0.18623501 0.2930644 0.39239067]
915. Loss = [[0.00247576 0.00288206 0.00284011]],xi = [0.1 0.2 0.3], xi_hat = [0.1861817 0.29298485 0.39230564]
916. Loss = [[0.0024727 0.00287714 0.00283489]],xi = [0.1 0.2 0.3], xi_hat = [0.18612846 0.29290543 0.39222075]
917. Loss = [[0.00246965 0.00287223 0.00282968]],xi = [0.1 0.2 0.3], xi_hat = [0.18607529 0.29282614 0.39213602]
918. Loss = [[0.00246661 0.00286734 0.00282449]],xi = [0.1 0.2 0.3], xi_hat = [0.18602219 0.292747 0.
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39205143]  
919. Loss = [[0.00246357 0.00286245 0.00281931]], xi = [0.1 0.2 0.3], xi\_hat = [0.18596917 0.29266799 0.391967]  
]  
920. Loss = [[0.00246053 0.00285758 0.00281414]], xi = [0.1 0.2 0.3], xi\_hat = [0.18591622 0.29258912 0.39188272]  
]  
921. Loss = [[0.0024575 0.00285272 0.00280899]], xi = [0.1 0.2 0.3], xi\_hat = [0.18586334 0.29251039 0.39179859]  
]  
922. Loss = [[0.00245448 0.00284788 0.00280386]], xi = [0.1 0.2 0.3], xi\_hat = [0.18581053 0.29243179 0.39171461]  
]  
923. Loss = [[0.00245147 0.00284305 0.00279873]], xi = [0.1 0.2 0.3], xi\_hat = [0.18575779 0.29235333 0.39163078]  
]  
924. Loss = [[0.00244846 0.00283823 0.00279362]], xi = [0.1 0.2 0.3], xi\_hat = [0.18570512 0.292275 0.3915471]  
]  
925. Loss = [[0.00244545 0.00283342 0.00278853]], xi = [0.1 0.2 0.3], xi\_hat = [0.18565253 0.2921968 0.39146356]  
]  
926. Loss = [[0.00244245 0.00282862 0.00278345]], xi = [0.1 0.2 0.3], xi\_hat = [0.1856 0.29211875 0.39138017]  
]  
927. Loss = [[0.00243946 0.00282384 0.00277838]], xi = [0.1 0.2 0.3], xi\_hat = [0.18554755 0.29204082 0.39129694]  
]  
928. Loss = [[0.00243647 0.00281907 0.00277332]], xi = [0.1 0.2 0.3], xi\_hat = [0.18549517 0.29196303 0.39121385]  
]  
929. Loss = [[0.00243349 0.00281431 0.00276828]], xi = [0.1 0.2 0.3], xi\_hat = [0.18544286 0.29188537 0.3911309]  
]  
930. Loss = [[0.00243052 0.00280956 0.00276325]], xi = [0.1 0.2 0.3], xi\_hat = [0.18539061 0.29180785 0.3910481]  
]  
931. Loss = [[0.00242755 0.00280483 0.00275824]], xi = [0.1 0.2 0.3], xi\_hat = [0.18533844 0.29173046 0.39096545]  
]  
932. Loss = [[0.00242459 0.0028001 0.00275324]], xi = [

File - main

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0.1 0.2 0.3], xi_hat = [0.18528634 0.2916532 0.  
39088295]  
933. Loss = [[0.00242163 0.00279539 0.00274825]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18523431 0.29157607 0.  
39080059]  
934. Loss = [[0.00241868 0.00279069 0.00274327]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18518235 0.29149907 0.  
39071837]  
935. Loss = [[0.00241573 0.00278601 0.00273831]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18513046 0.29142221 0.3906363  
]  
936. Loss = [[0.00241279 0.00278133 0.00273337]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18507864 0.29134547 0.  
39055438]  
937. Loss = [[0.00240986 0.00277667 0.00272843]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18502689 0.29126887 0.3904726  
]  
938. Loss = [[0.00240693 0.00277202 0.00272351]],xi = [  
0.1 0.2 0.3], xi_hat = [0.1849752 0.2911924 0.  
39039096]  
939. Loss = [[0.00240401 0.00276738 0.0027186 ]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18492359 0.29111606 0.  
39030946]  
940. Loss = [[0.00240109 0.00276275 0.0027137 ]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18487205 0.29103984 0.  
39022811]  
941. Loss = [[0.00239818 0.00275814 0.00270882]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18482057 0.29096376 0.3901469  
]  
942. Loss = [[0.00239527 0.00275353 0.00270395]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18476916 0.2908878 0.  
39006583]  
943. Loss = [[0.00239237 0.00274894 0.00269909]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18471782 0.29081198 0.  
38998491]  
944. Loss = [[0.00238948 0.00274436 0.00269425]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18466656 0.29073628 0.  
38990412]  
945. Loss = [[0.00238659 0.00273979 0.00268942]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18461535 0.29066071 0.  
38982348]
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946. Loss = [[0.0023837 0.00273523 0.0026846 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.18456422 0.29058527 0.38974298]

947. Loss = [[0.00238082 0.00273068 0.00267979]], xi = [0.1 0.2 0.3], xi\_hat = [0.18451316 0.29050995 0.38966261]

948. Loss = [[0.00237795 0.00272615 0.002675 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.18446216 0.29043477 0.38958239]

949. Loss = [[0.00237509 0.00272163 0.00267022]], xi = [0.1 0.2 0.3], xi\_hat = [0.18441123 0.29035971 0.38950231]

950. Loss = [[0.00237222 0.00271711 0.00266545]], xi = [0.1 0.2 0.3], xi\_hat = [0.18436037 0.29028477 0.38942236]

951. Loss = [[0.00236937 0.00271261 0.0026607 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.18430957 0.29020996 0.38934256]

952. Loss = [[0.00236652 0.00270812 0.00265595]], xi = [0.1 0.2 0.3], xi\_hat = [0.18425885 0.29013528 0.38926289]

953. Loss = [[0.00236367 0.00270364 0.00265122]], xi = [0.1 0.2 0.3], xi\_hat = [0.18420819 0.29006072 0.38918336]

954. Loss = [[0.00236083 0.00269918 0.00264651]], xi = [0.1 0.2 0.3], xi\_hat = [0.18415759 0.28998629 0.38910397]

955. Loss = [[0.002358 0.00269472 0.0026418 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.18410707 0.28991198 0.38902472]

956. Loss = [[0.00235517 0.00269028 0.00263711]], xi = [0.1 0.2 0.3], xi\_hat = [0.18405661 0.2898378 0.3889456 ]

957. Loss = [[0.00235235 0.00268584 0.00263243]], xi = [0.1 0.2 0.3], xi\_hat = [0.18400622 0.28976374 0.38886662]

958. Loss = [[0.00234953 0.00268142 0.00262776]], xi = [0.1 0.2 0.3], xi\_hat = [0.18395589 0.28968981 0.38878778]

959. Loss = [[0.00234672 0.00267701 0.0026231 ]], xi = [0.1 0.2 0.3], xi\_hat = [0.18390563 0.28961599 0.

38870907]  
960. Loss = [[0.00234391 0.00267261 0.00261846]], xi = [0.1 0.2 0.3], xi\_hat = [0.18385544 0.28954231 0.3886305]  
961. Loss = [[0.00234111 0.00266822 0.00261382]], xi = [0.1 0.2 0.3], xi\_hat = [0.18380531 0.28946874 0.38855207]  
962. Loss = [[0.00233831 0.00266384 0.0026092]], xi = [0.1 0.2 0.3], xi\_hat = [0.18375525 0.2893953 0.38847377]  
963. Loss = [[0.00233552 0.00265947 0.00260459]], xi = [0.1 0.2 0.3], xi\_hat = [0.18370525 0.28932198 0.3883956]  
964. Loss = [[0.00233274 0.00265511 0.0026]], xi = [0.1 0.2 0.3], xi\_hat = [0.18365533 0.28924878 0.38831757]  
965. Loss = [[0.00232996 0.00265077 0.00259541]], xi = [0.1 0.2 0.3], xi\_hat = [0.18360546 0.2891757 0.38823967]  
966. Loss = [[0.00232718 0.00264643 0.00259084]], xi = [0.1 0.2 0.3], xi\_hat = [0.18355566 0.28910275 0.38816119]  
967. Loss = [[0.00232441 0.00264211 0.00258628]], xi = [0.1 0.2 0.3], xi\_hat = [0.18350593 0.28902991 0.38808427]  
968. Loss = [[0.00232165 0.00263779 0.00258173]], xi = [0.1 0.2 0.3], xi\_hat = [0.18345626 0.2889572 0.38800677]  
969. Loss = [[0.00231889 0.00263349 0.00257719]], xi = [0.1 0.2 0.3], xi\_hat = [0.18340666 0.2888846 0.38792941]  
970. Loss = [[0.00231614 0.0026292 0.00257267]], xi = [0.1 0.2 0.3], xi\_hat = [0.18335712 0.28881213 0.38785218]  
971. Loss = [[0.00231339 0.00262492 0.00256815]], xi = [0.1 0.2 0.3], xi\_hat = [0.18330765 0.28873978 0.38777507]  
972. Loss = [[0.00231065 0.00262064 0.00256365]], xi = [0.1 0.2 0.3], xi\_hat = [0.18325824 0.28866754 0.3876981]  
973. Loss = [[0.00230791 0.00261638 0.00255916]], xi = [

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0.1 0.2 0.3], xi_hat = [0.1832089  0.28859543  0.  
38762127]  
974. Loss = [[0.00230517  0.00261213  0.00255468]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18315962  0.28852344  0.  
38754456]  
975. Loss = [[0.00230245  0.00260789  0.00255022]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18311041  0.28845156  0.  
38746798]  
976. Loss = [[0.00229972  0.00260366  0.00254576]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18306126  0.2883798   0.  
38739153]  
977. Loss = [[0.00229701  0.00259944  0.00254132]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18301217  0.28830816  0.  
38731522]  
978. Loss = [[0.00229429  0.00259523  0.00253688]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18296315  0.28823664  0.  
38723903]  
979. Loss = [[0.00229159  0.00259104  0.00253246]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18291419  0.28816523  0.  
38716297]  
980. Loss = [[0.00228889  0.00258685  0.00252805]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18286529  0.28809394  0.  
38708704]  
981. Loss = [[0.00228619  0.00258267  0.00252365]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18281646  0.28802277  0.  
38701124]  
982. Loss = [[0.0022835   0.0025785   0.00251926]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18276769  0.28795172  0.  
38693557]  
983. Loss = [[0.00228081  0.00257434  0.00251489]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18271899  0.28788078  0.  
38686003]  
984. Loss = [[0.00227813  0.0025702   0.00251052]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18267035  0.28780996  0.  
38678461]  
985. Loss = [[0.00227545  0.00256606  0.00250617]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18262177  0.28773925  0.  
38670932]  
986. Loss = [[0.00227278  0.00256193  0.00250183]],xi = [  
0.1 0.2 0.3], xi_hat = [0.18257325  0.28766866  0.  
38663416]
```

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```
987. Loss = [[0.00227011 0.00255781 0.00249749]],xi = [0.1 0.2 0.3], xi_hat = [0.1825248 0.28759819 0.38655912]
988. Loss = [[0.00226745 0.00255371 0.00249317]],xi = [0.1 0.2 0.3], xi_hat = [0.18247641 0.28752783 0.38648421]
989. Loss = [[0.0022648 0.00254961 0.00248886]],xi = [0.1 0.2 0.3], xi_hat = [0.18242808 0.28745758 0.38640943]
990. Loss = [[0.00226214 0.00254552 0.00248456]],xi = [0.1 0.2 0.3], xi_hat = [0.18237982 0.28738745 0.38633477]
991. Loss = [[0.0022595 0.00254144 0.00248028]],xi = [0.1 0.2 0.3], xi_hat = [0.18233161 0.28731743 0.38626024]
992. Loss = [[0.00225686 0.00253738 0.002476]],xi = [0.1 0.2 0.3], xi_hat = [0.18228347 0.28724753 0.38618584]
993. Loss = [[0.00225422 0.00253332 0.00247173]],xi = [0.1 0.2 0.3], xi_hat = [0.18223539 0.28717774 0.38611156]
994. Loss = [[0.00225159 0.00252927 0.00246748]],xi = [0.1 0.2 0.3], xi_hat = [0.18218738 0.28710806 0.3860374]
995. Loss = [[0.00224896 0.00252523 0.00246323]],xi = [0.1 0.2 0.3], xi_hat = [0.18213942 0.28703849 0.38596337]
996. Loss = [[0.00224634 0.0025212 0.002459]],xi = [0.1 0.2 0.3], xi_hat = [0.18209153 0.28696904 0.38588946]
997. Loss = [[0.00224372 0.00251719 0.00245478]],xi = [0.1 0.2 0.3], xi_hat = [0.1820437 0.2868997 0.38581567]
998. Loss = [[0.00224111 0.00251318 0.00245056]],xi = [0.1 0.2 0.3], xi_hat = [0.18199593 0.28683048 0.38574201]
999. Loss = [[0.0022385 0.00250918 0.00244636]],xi = [0.1 0.2 0.3], xi_hat = [0.18194822 0.28676136 0.38566847]
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Process finished with exit code 0