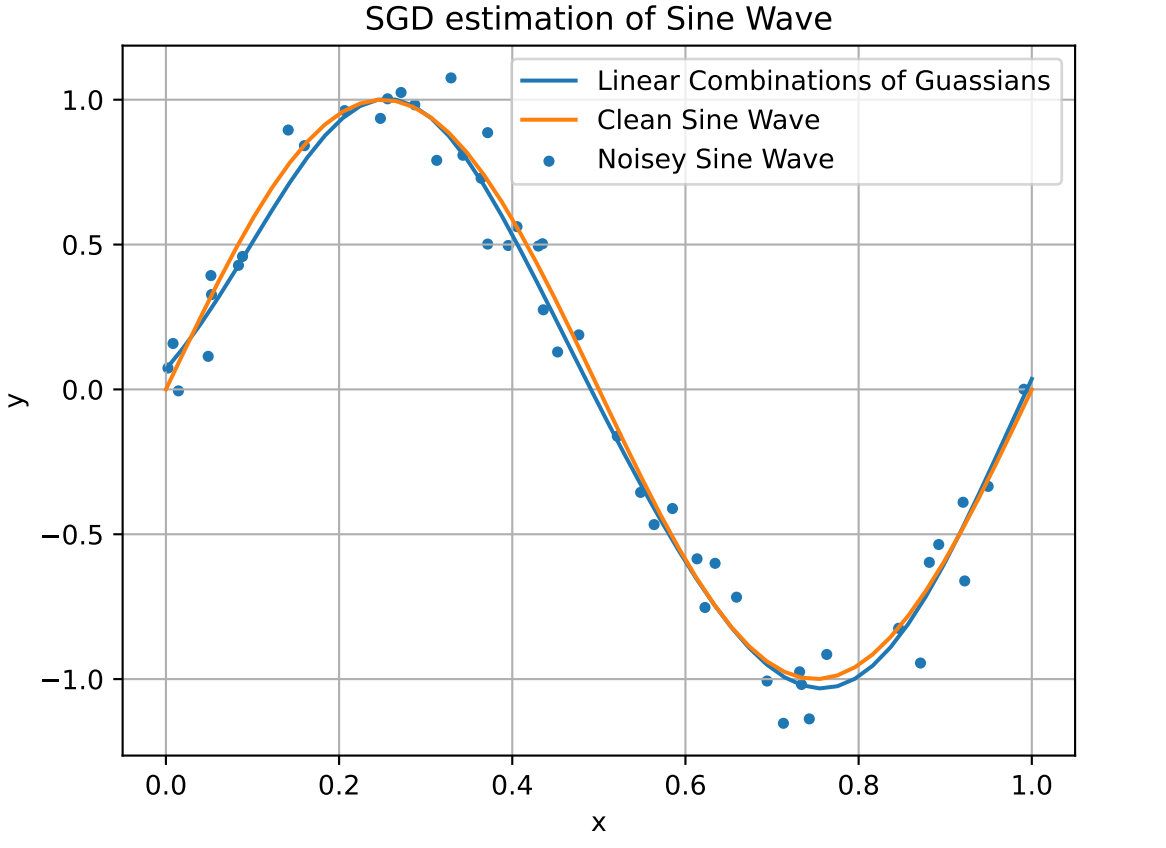
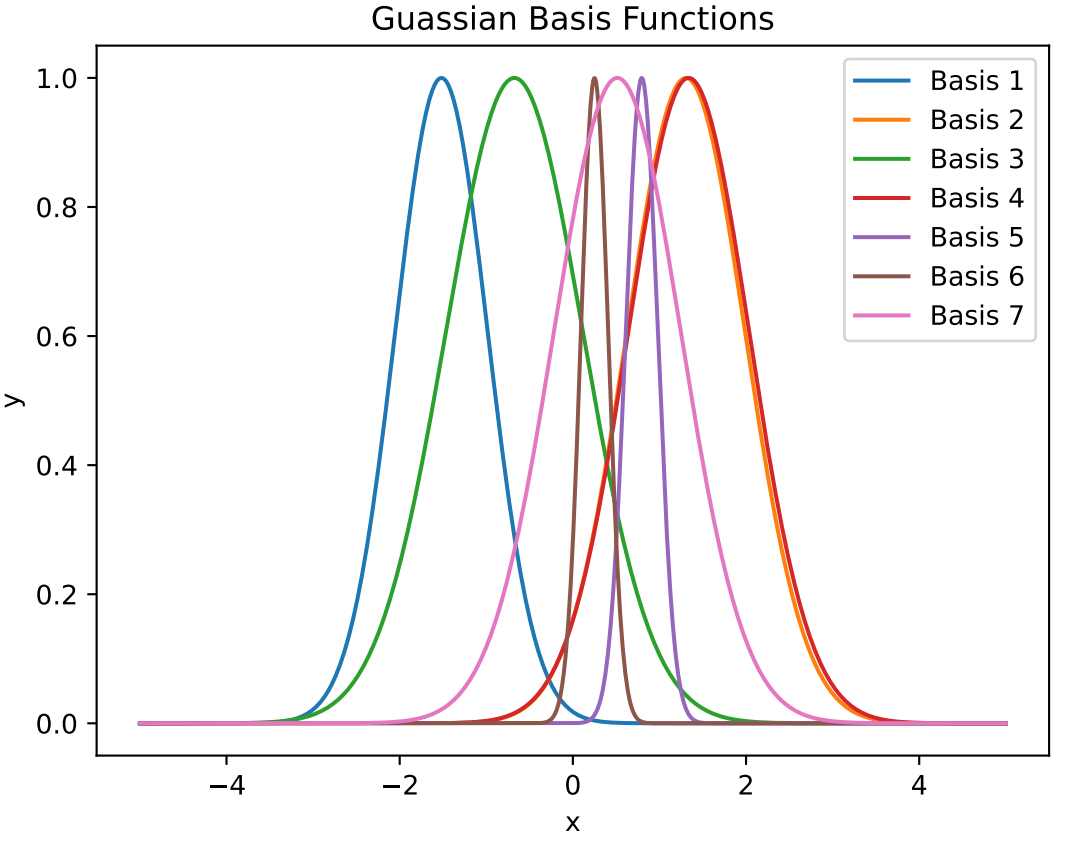
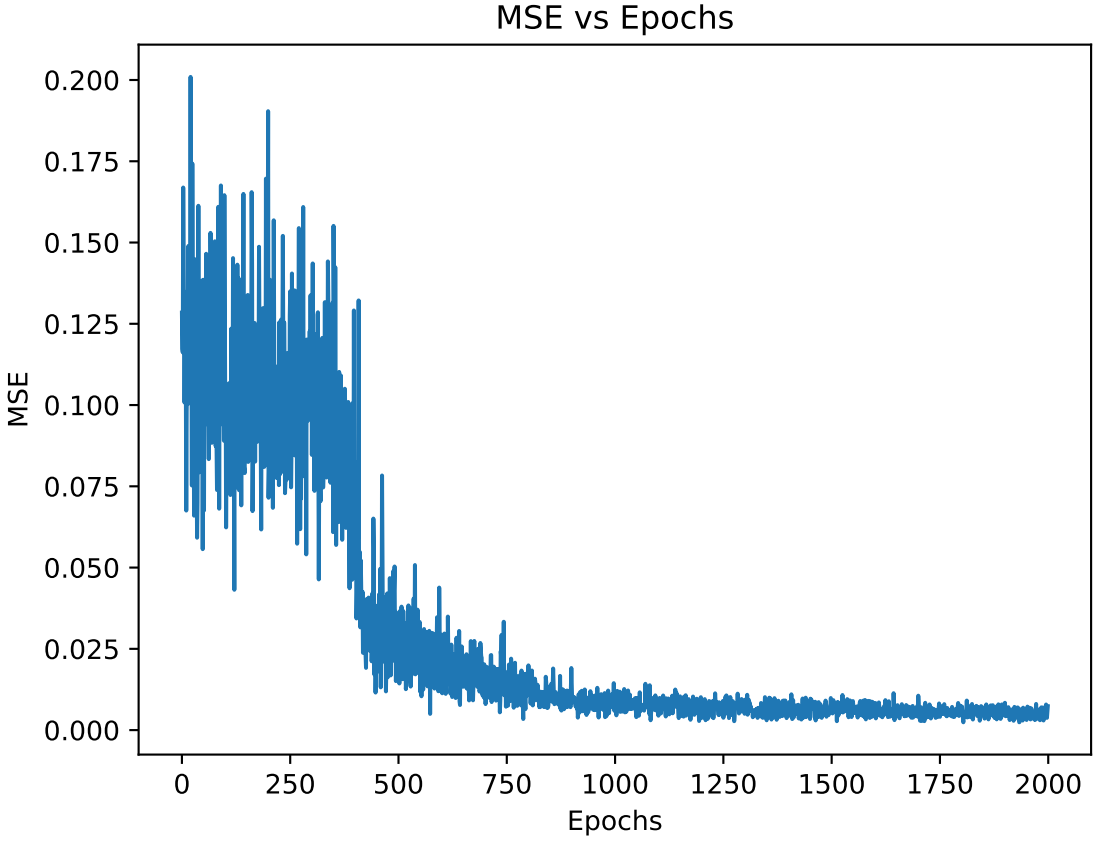

SGD estimation of Sine Wave
Linear Combinations of Guassians
Clean Sine Wave
Noisey Sine Wave
1.0
0.5
0.0
−0.5
−1.0
y
0.0
0.2
0.4
0.6
0.8
1.0
x


Guassian Basis Functions
Basis 1
Basis 2
Basis 3
Basis 4
Basis 5
Basis 6
Basis 7
1.0
0.8
0.6
0.4
0.2
0.0
y
−4
−2
0
2
4
x


MSE vs Epochs
MSE
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0
250
500
750
1000
1250
1500
1750
2000
Epochs