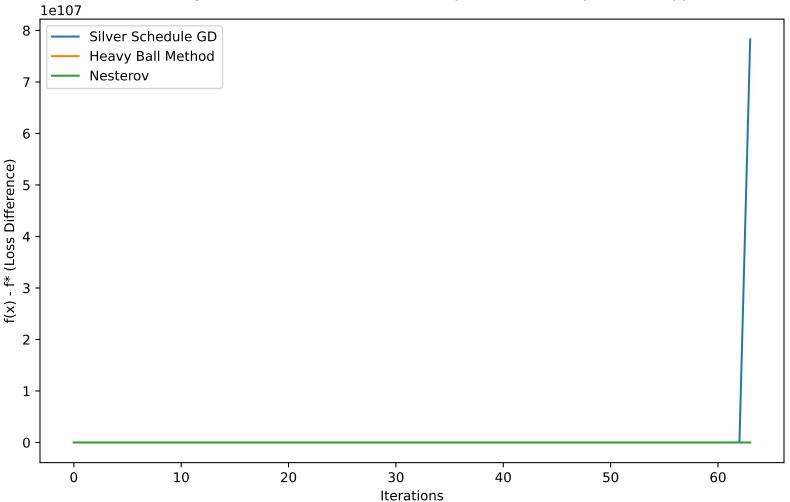
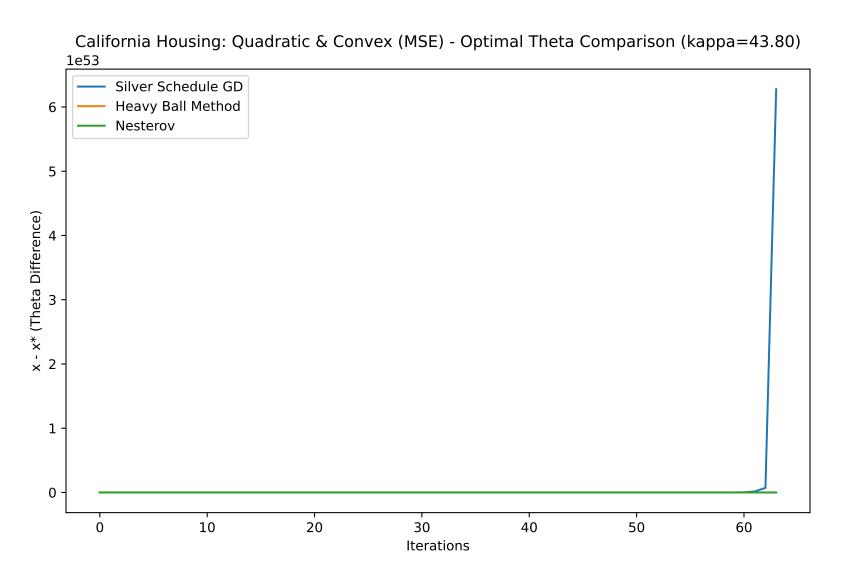
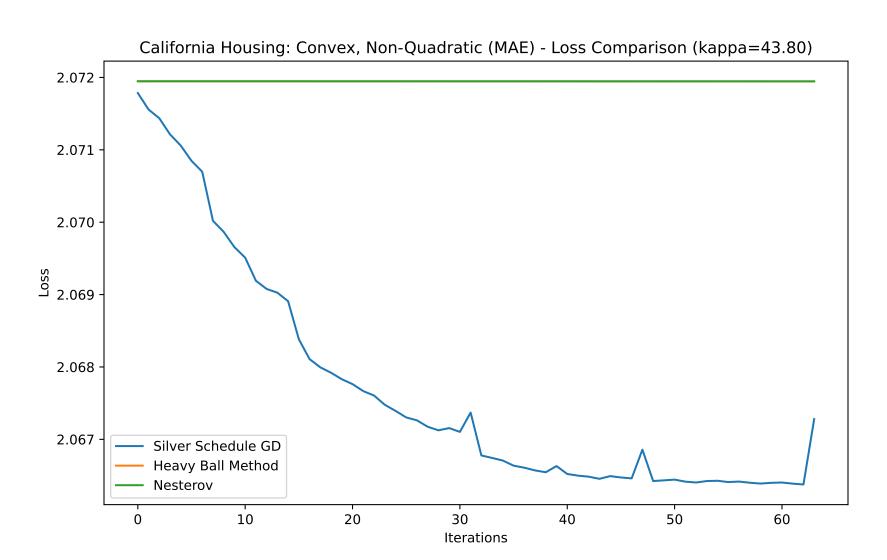
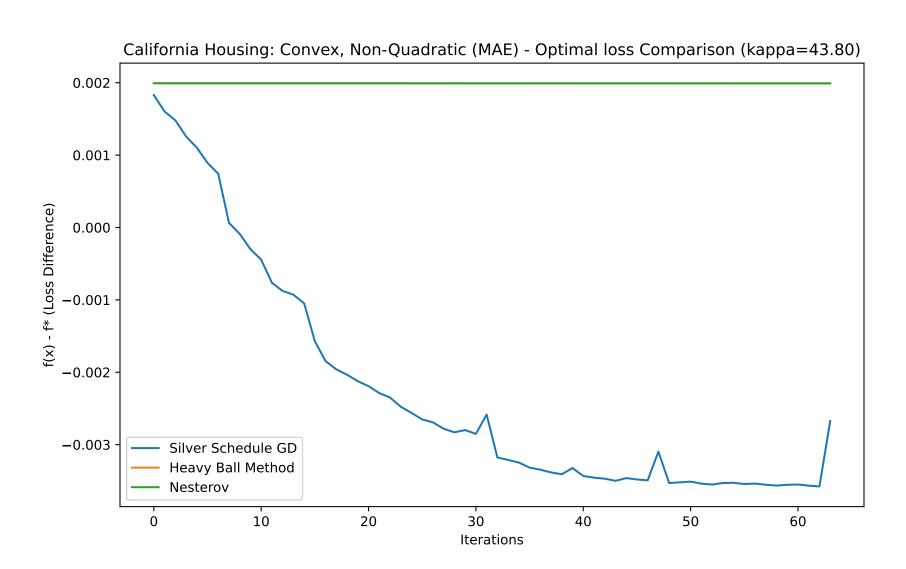


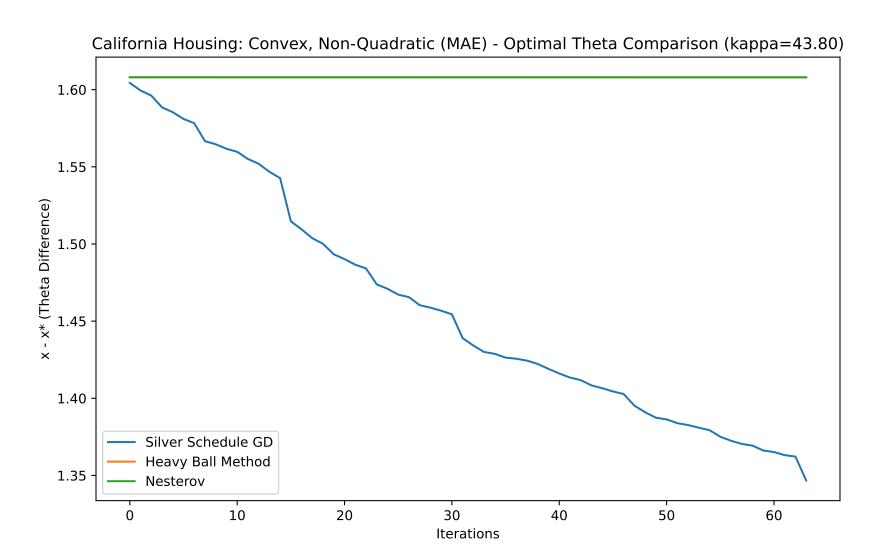
California Housing: Quadratic & Convex (MSE) - Optimal loss Comparison (kappa=43.80) Silver Schedule GD Heavy Ball Method Nesterov

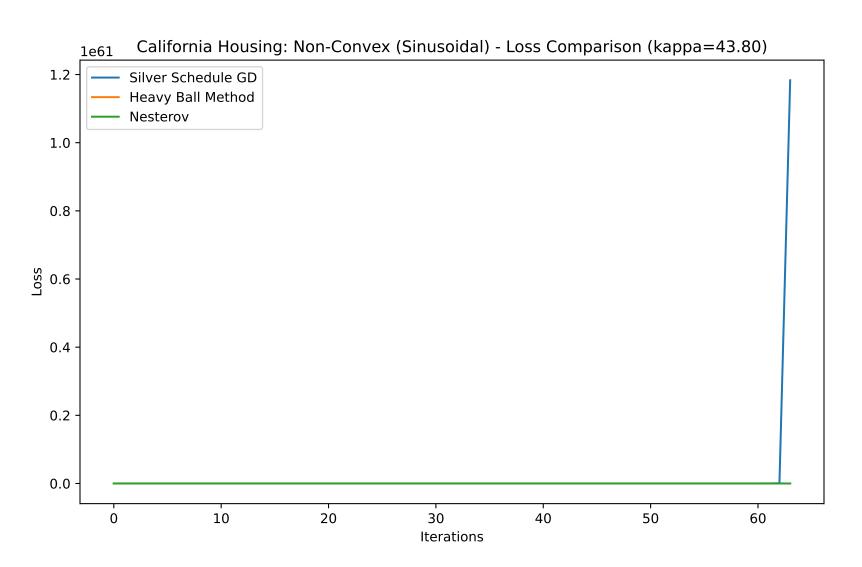




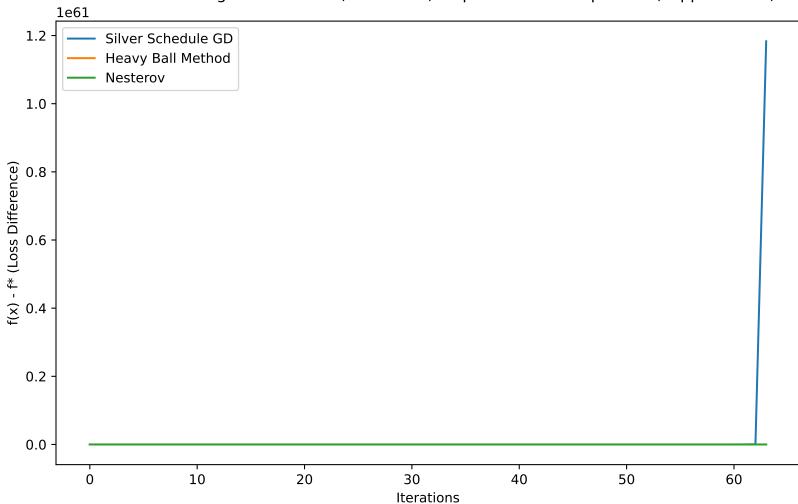








California Housing: Non-Convex (Sinusoidal) - Optimal loss Comparison (kappa=43.80)



California Housing: Non-Convex (Sinusoidal) - Optimal Theta Comparison (kappa=43.80) 1e30 3.5 -Silver Schedule GD Heavy Ball Method Nesterov 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -10 20

30

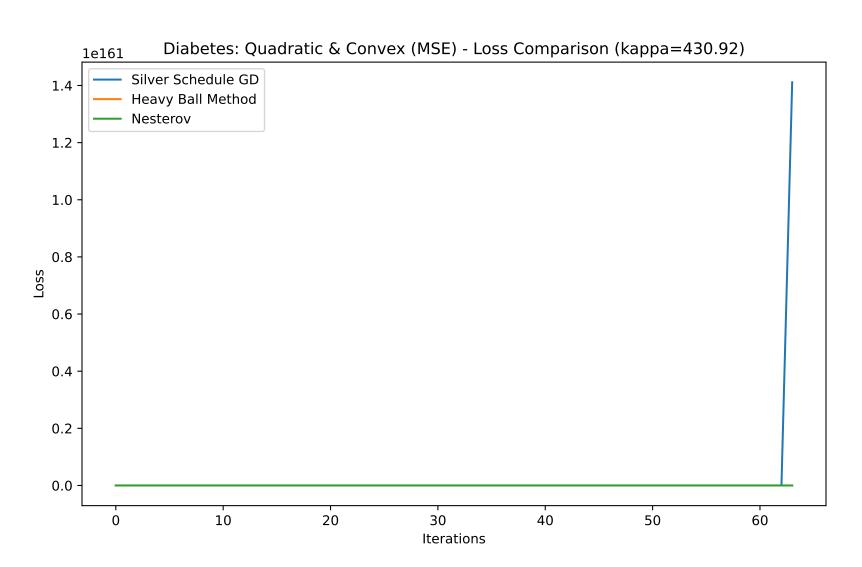
Iterations

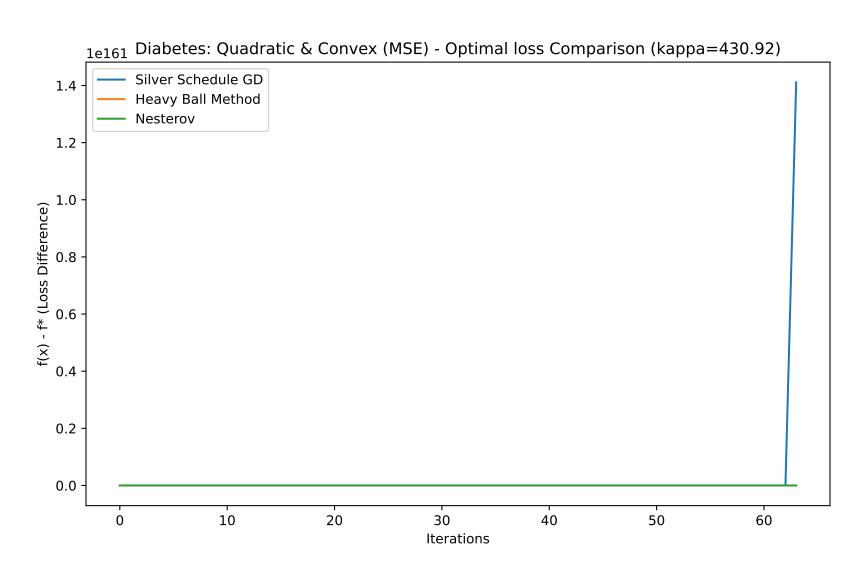
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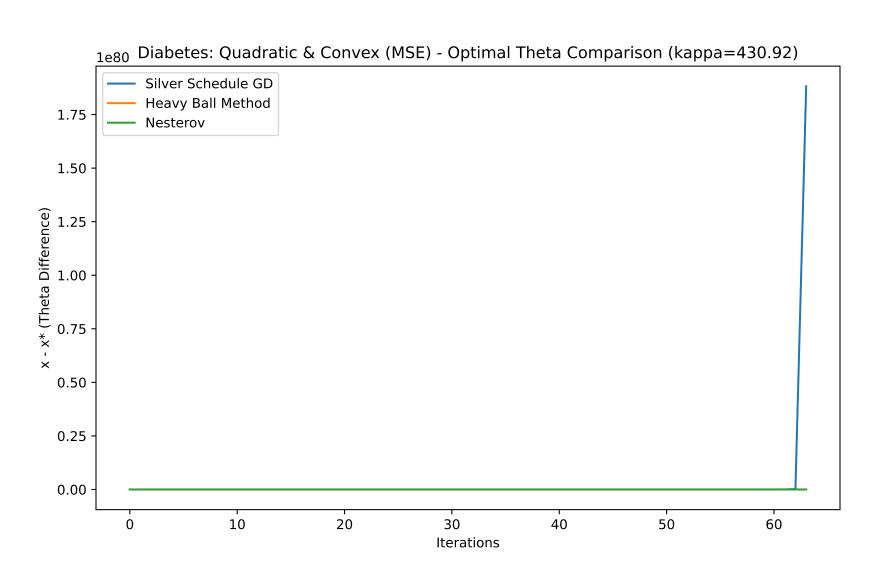
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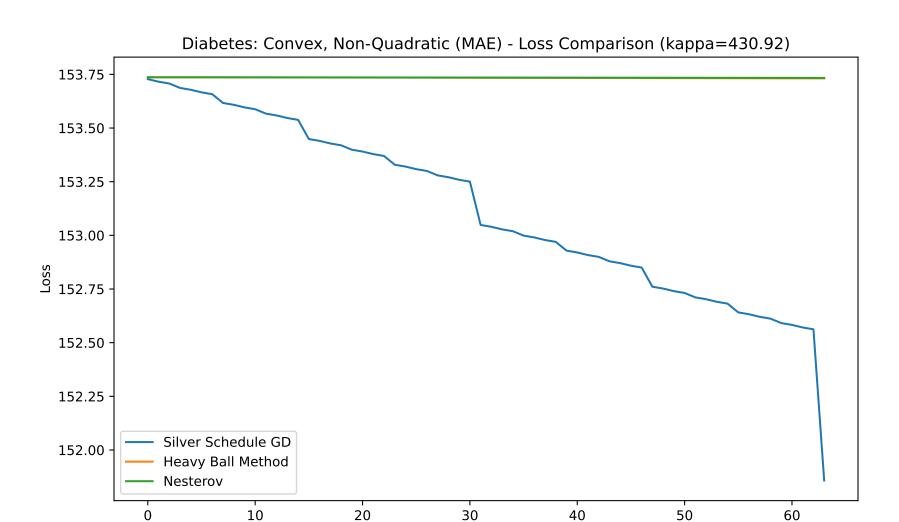
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x - x\* (Theta Difference)

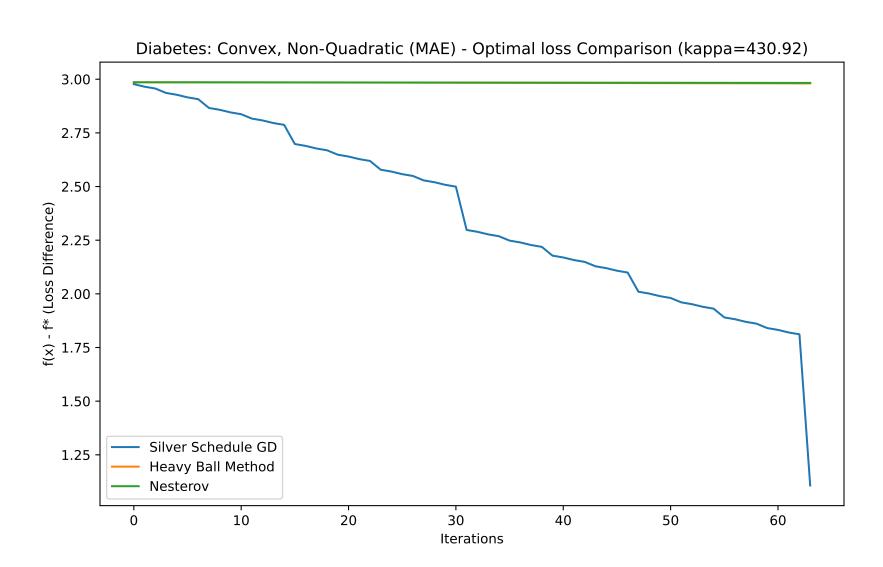


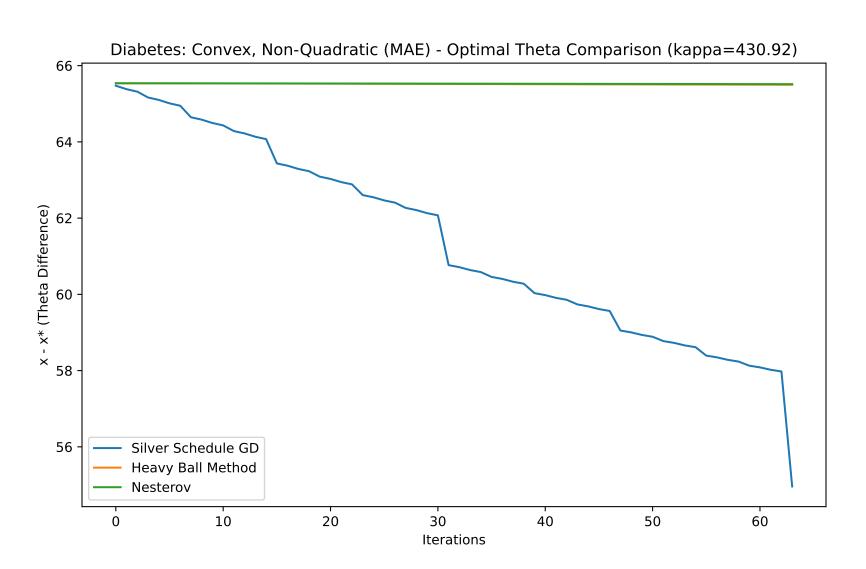


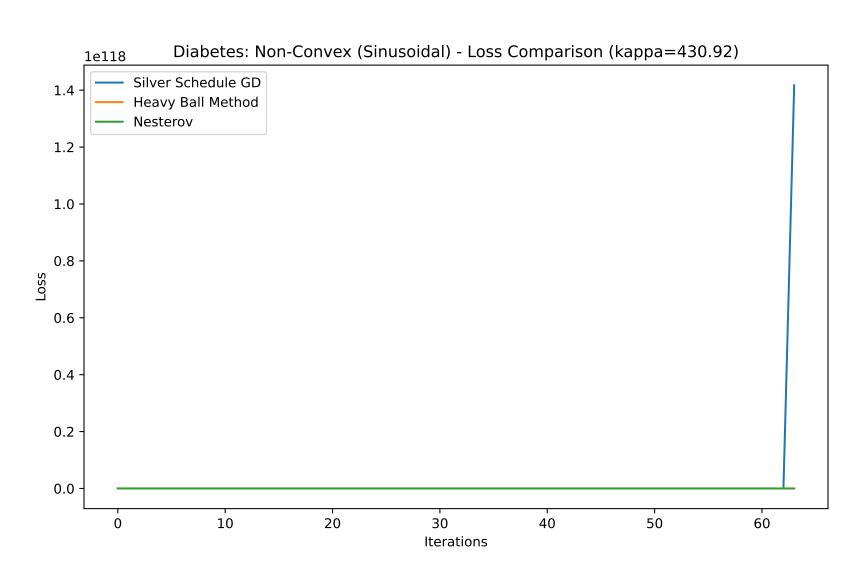


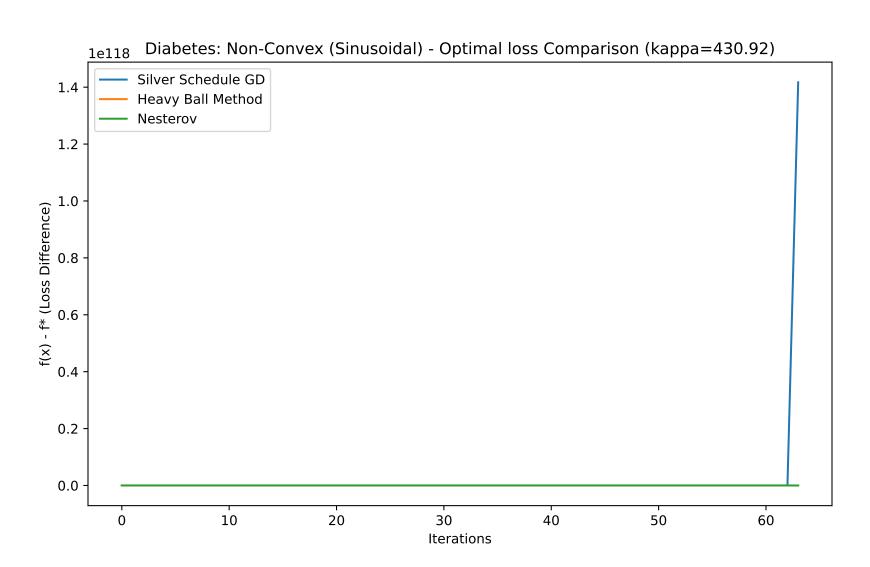


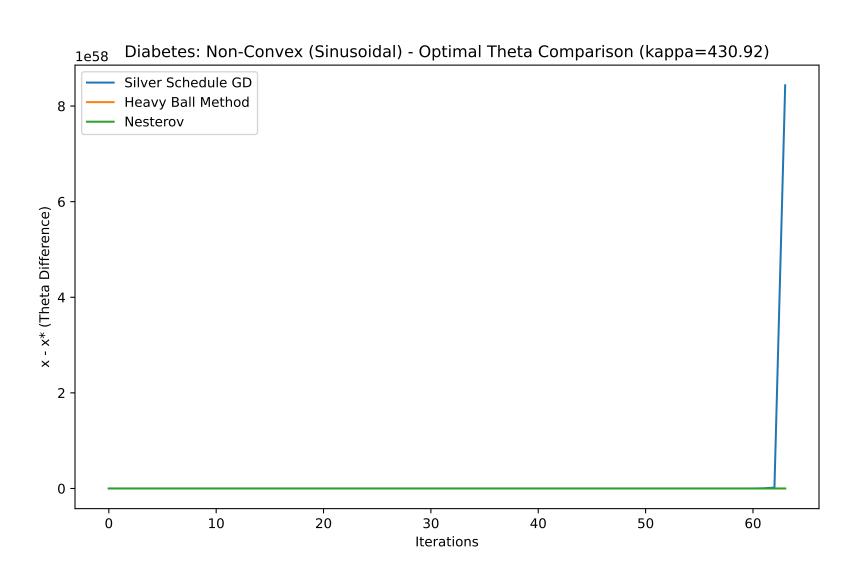
Iterations

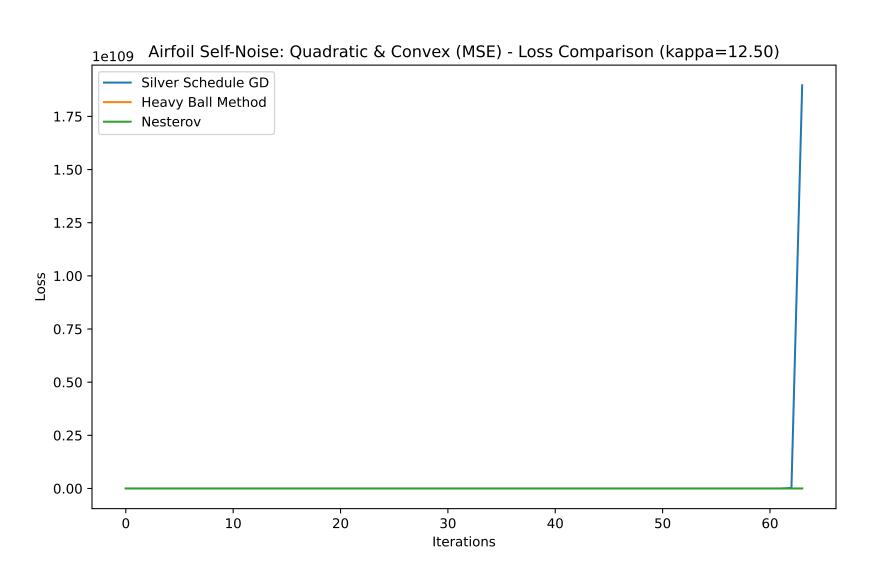


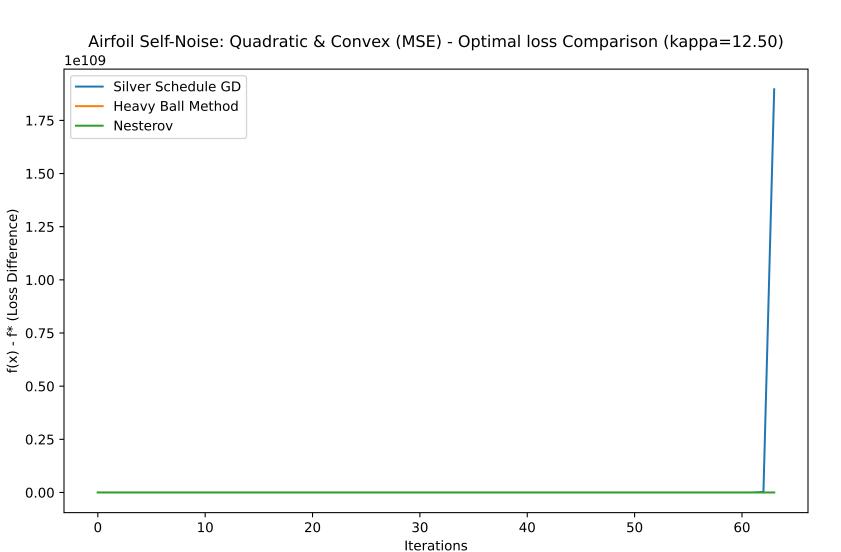


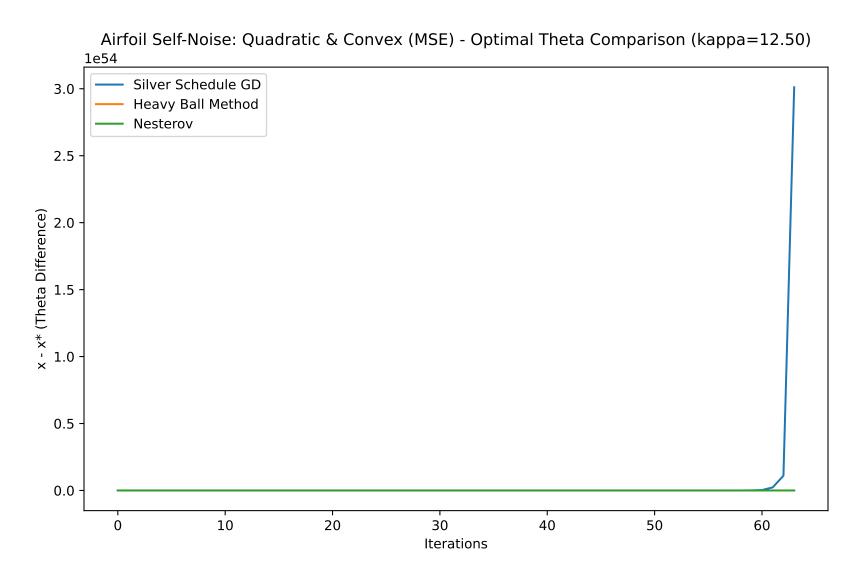


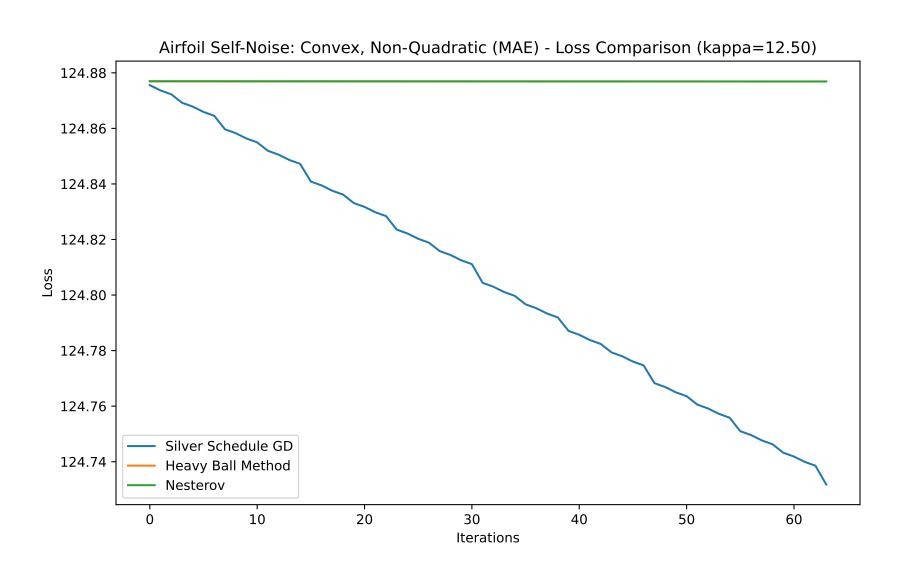


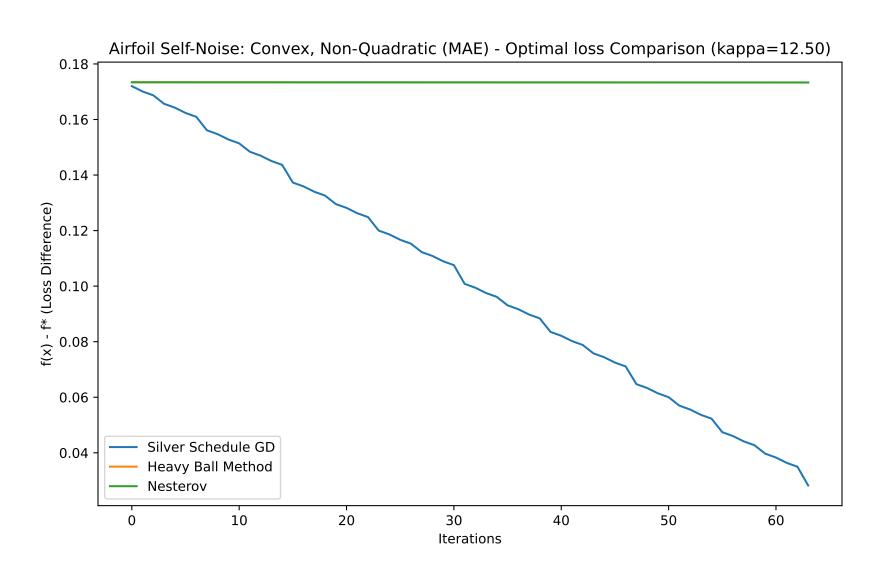


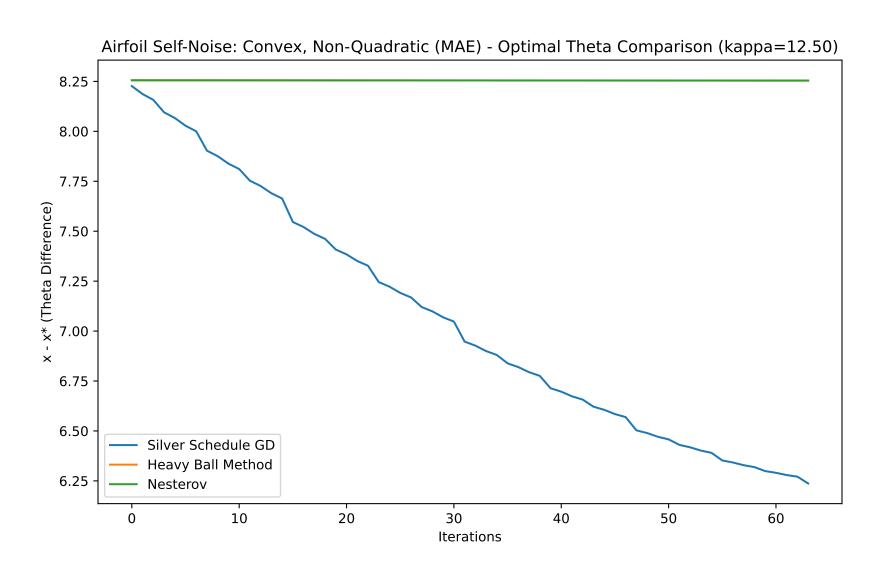


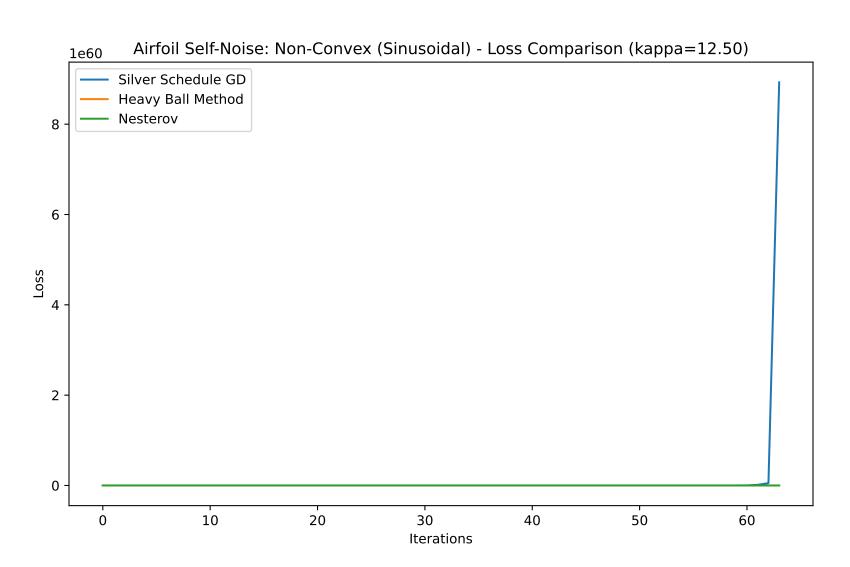


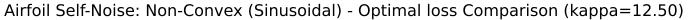


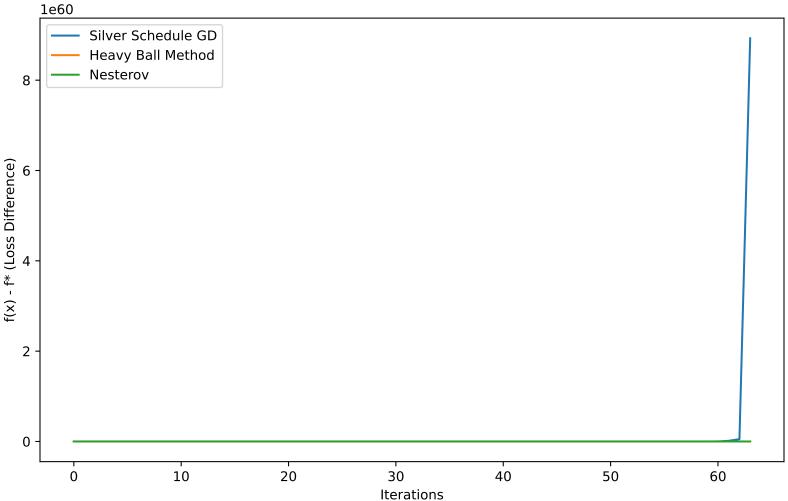




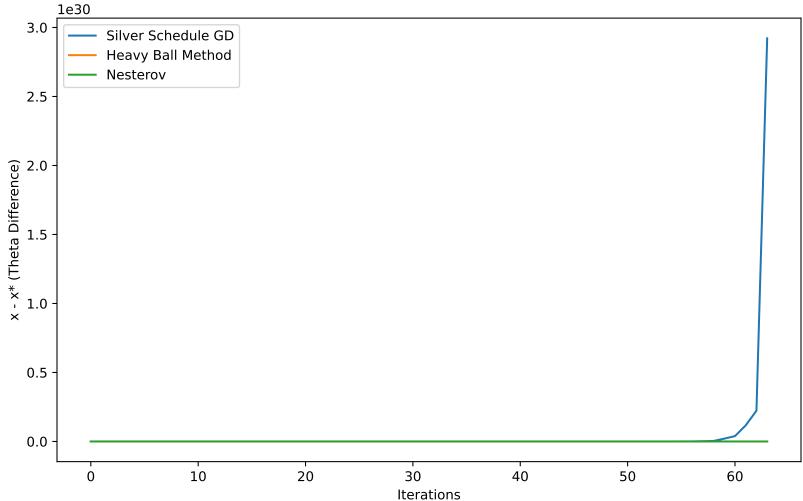


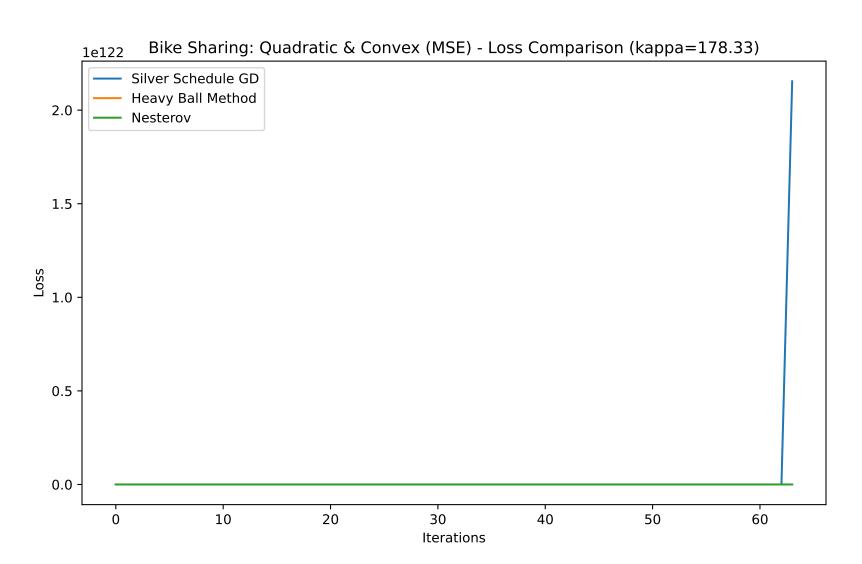




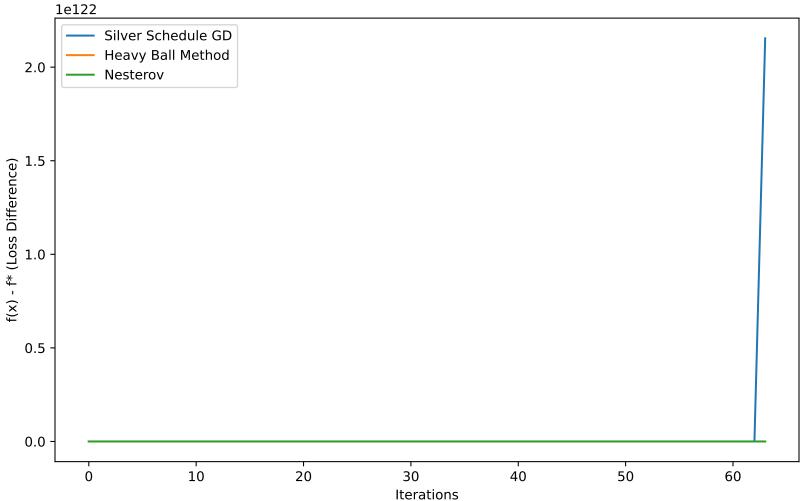


Airfoil Self-Noise: Non-Convex (Sinusoidal) - Optimal Theta Comparison (kappa=12.50)





Bike Sharing: Quadratic & Convex (MSE) - Optimal loss Comparison (kappa=178.33)



Bike Sharing: Quadratic & Convex (MSE) - Optimal Theta Comparison (kappa=178.33) 1e61 Silver Schedule GD 1.0 -Heavy Ball Method Nesterov 0.8 0.4 0.0 -20 10 30 40 50 60

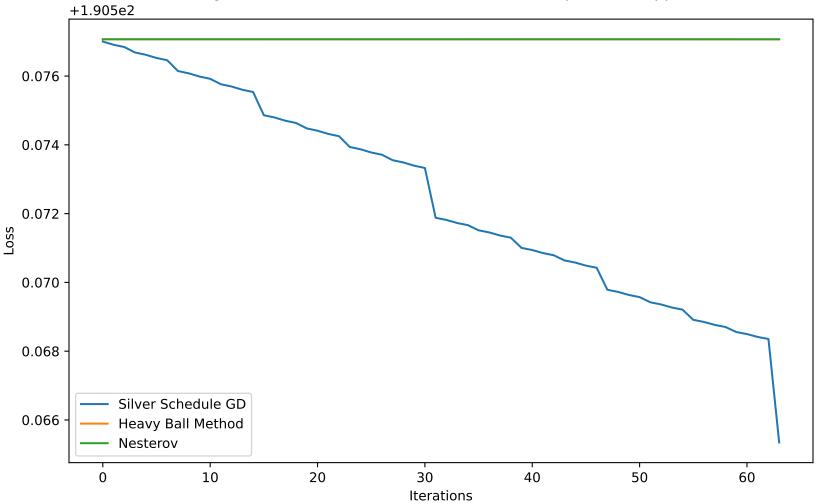
Iterations

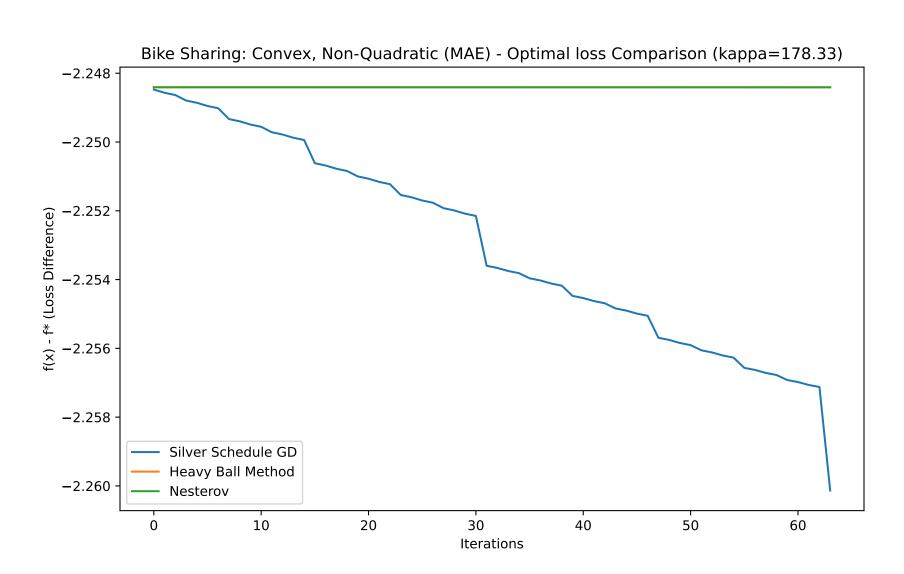
x - x\* (Theta Difference)

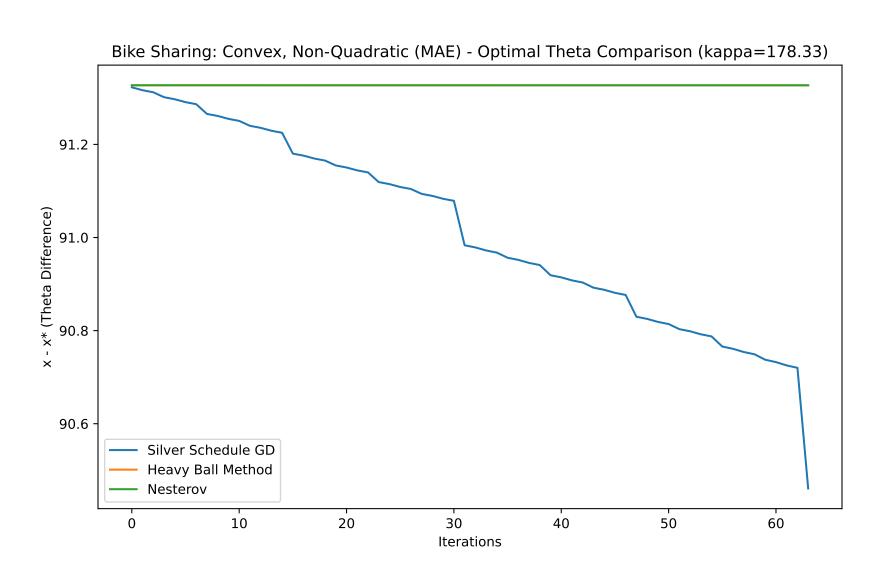
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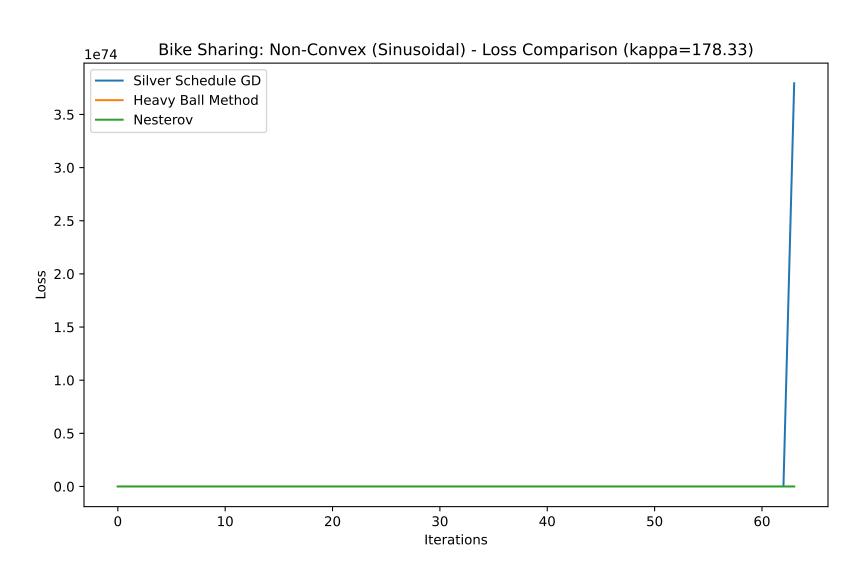
0.2

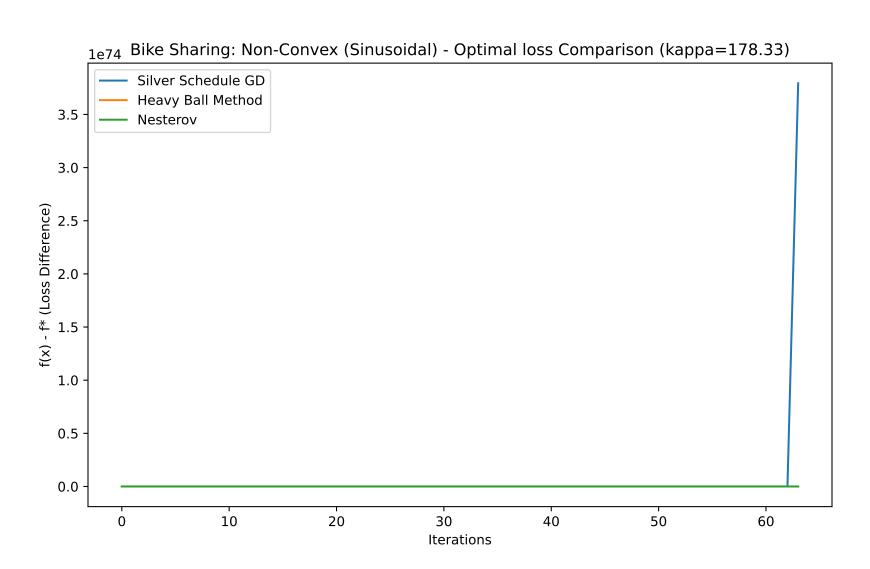
Bike Sharing: Convex, Non-Quadratic (MAE) - Loss Comparison (kappa=178.33)

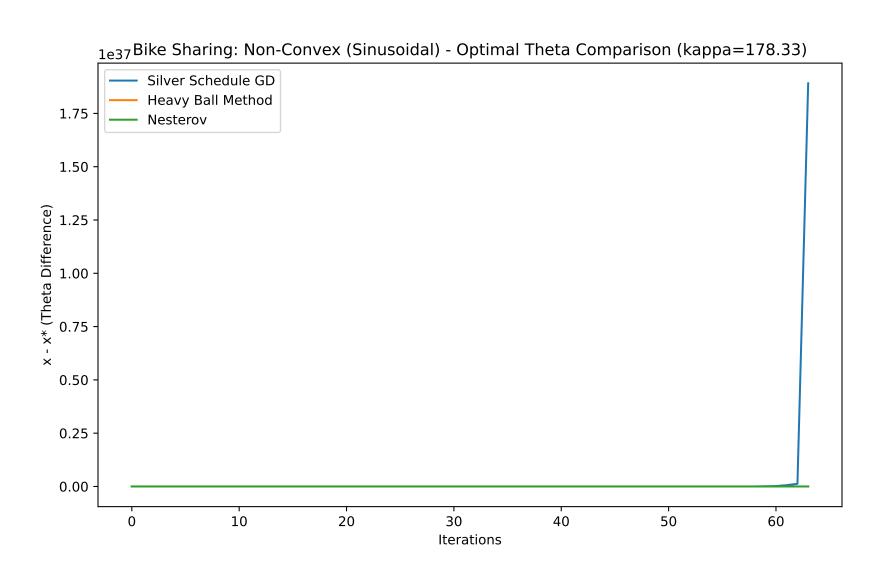


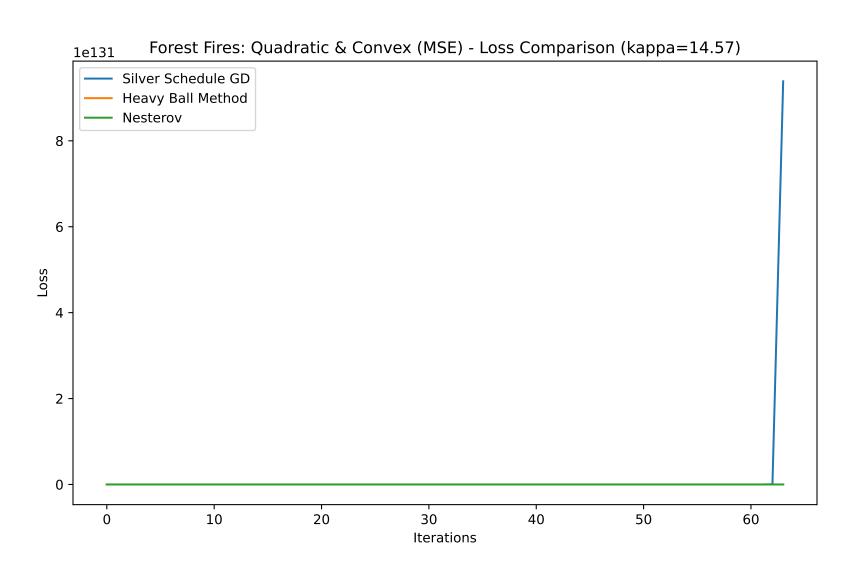


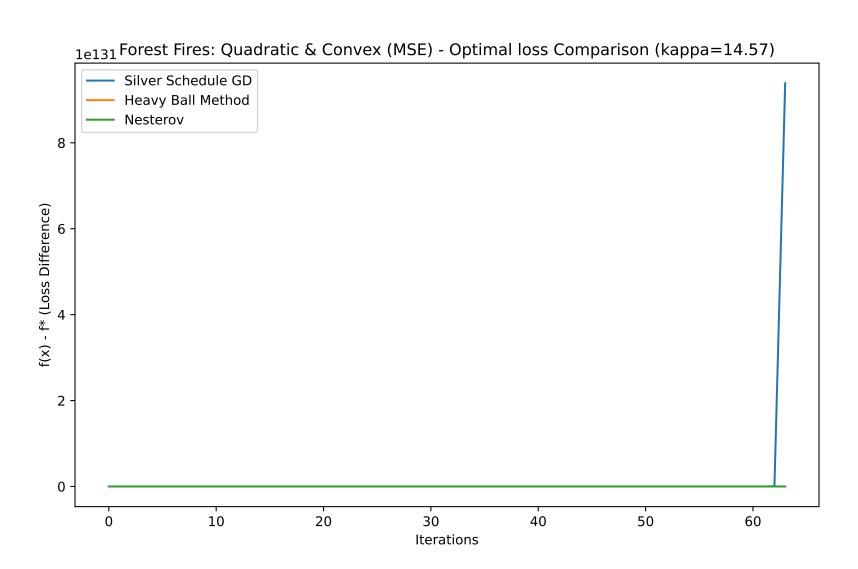


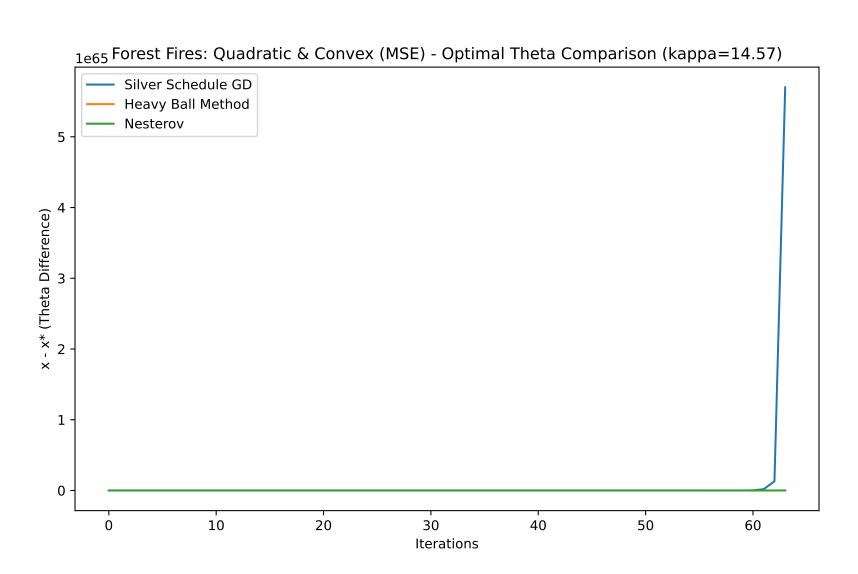




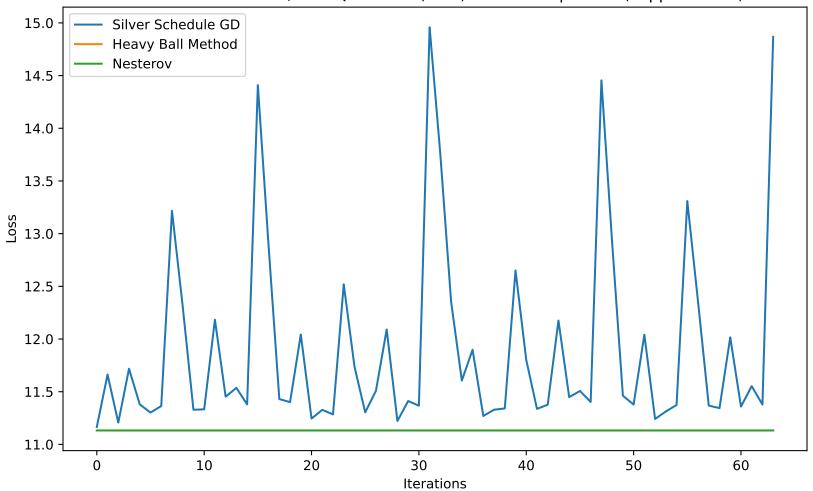




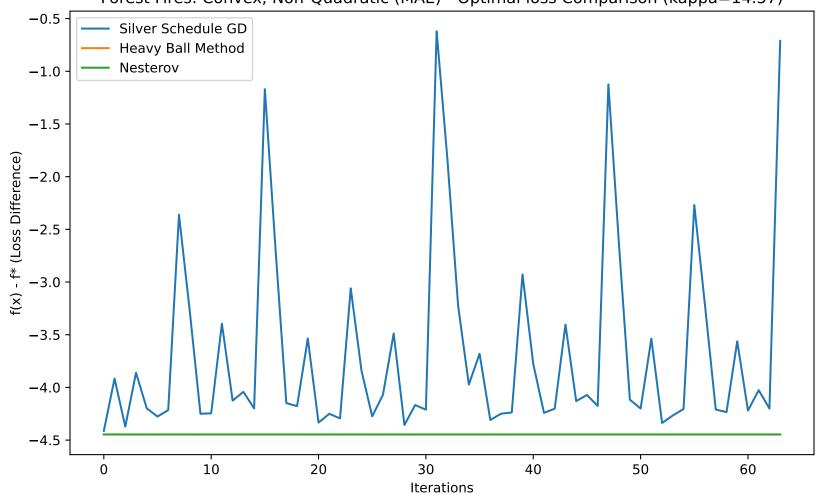




Forest Fires: Convex, Non-Quadratic (MAE) - Loss Comparison (kappa=14.57)



Forest Fires: Convex, Non-Quadratic (MAE) - Optimal loss Comparison (kappa=14.57)



Forest Fires: Convex, Non-Quadratic (MAE) - Optimal Theta Comparison (kappa=14.57)

