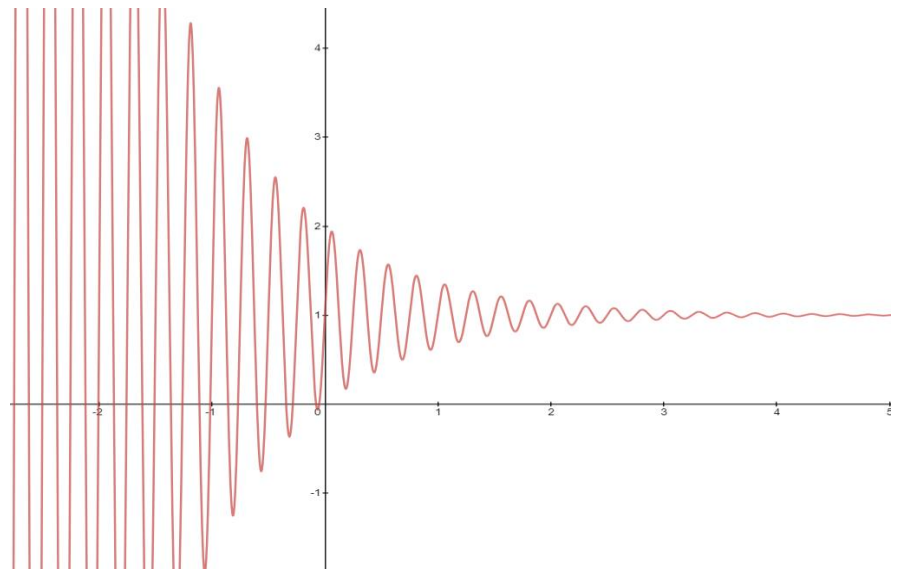


Custom Function3:

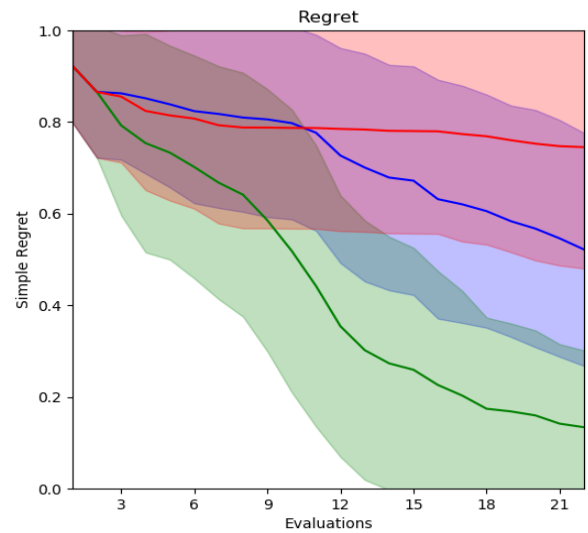
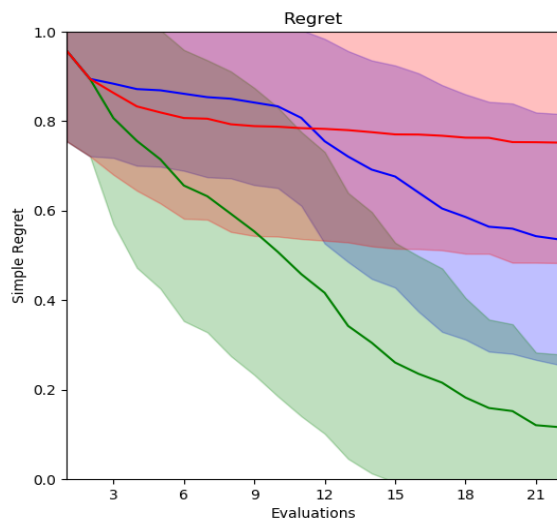
Domain: (0, 10)

Maximum: 1.94015475 at x=0.061

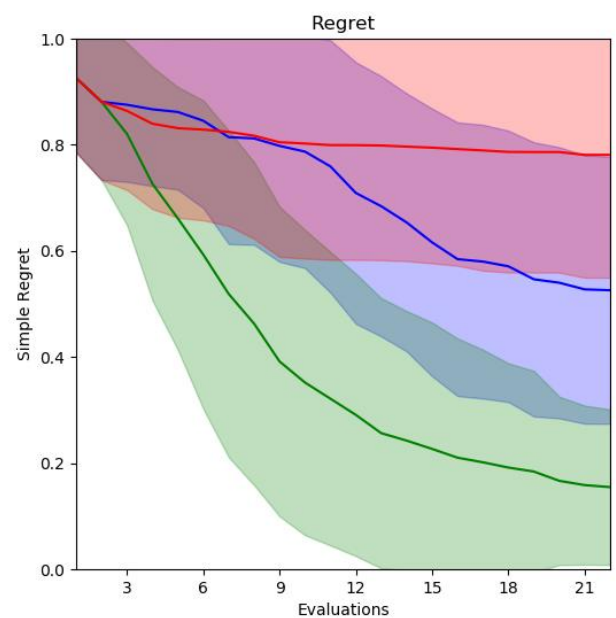
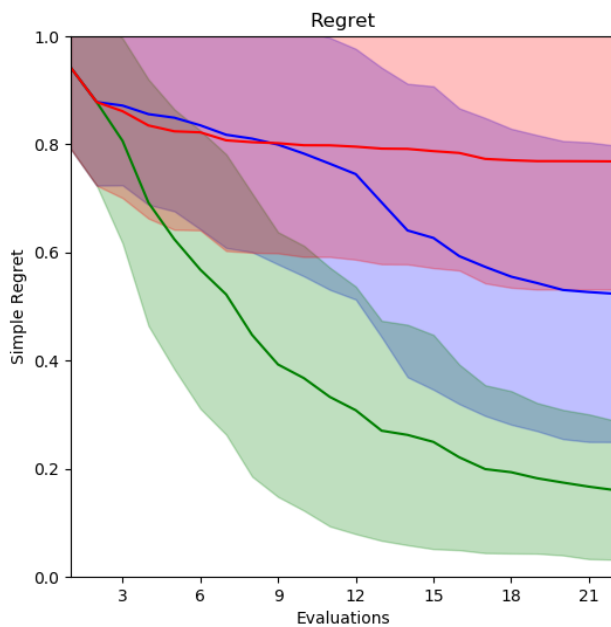
$$y = e^{-x_1} \cdot \sin(8\pi x_1) + 1$$



## Linear Length Scale



## Quadratic Length Scale

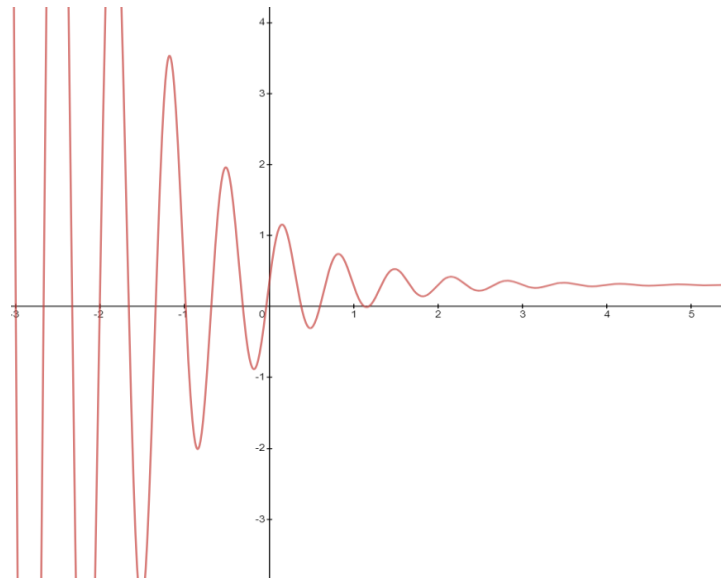


Custom Function2:

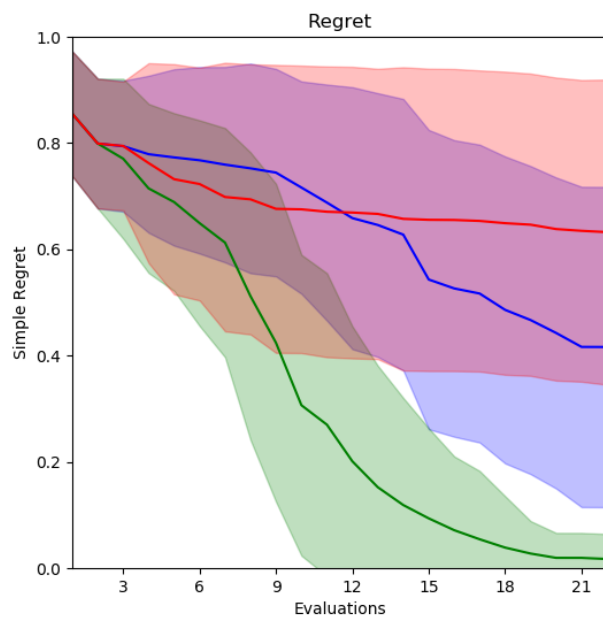
Domain: (0, 10)

Maximum: 1.5125 at x=0.1554

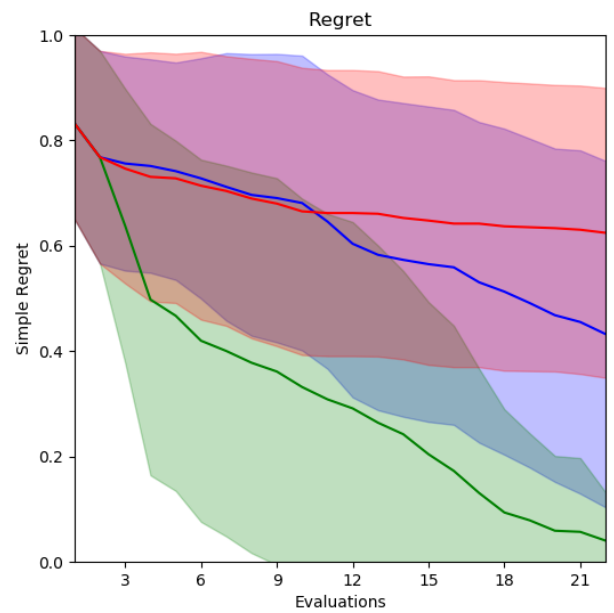
$$y = e^{-x_1} \cdot \sin(3\pi x_1) + 0.3$$



Linear Length Scale



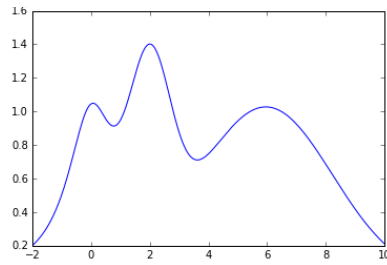
Quadratic Length Scale



Custom Function1:

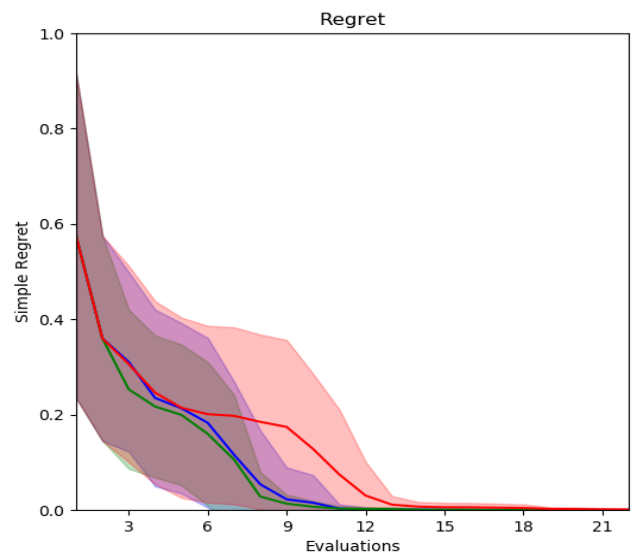
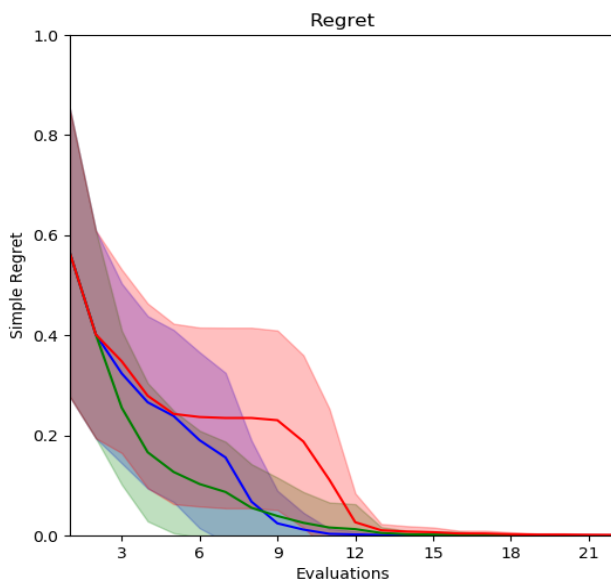
Domain: (-2, 10)

Maximum: 1.401 at x=2.0202

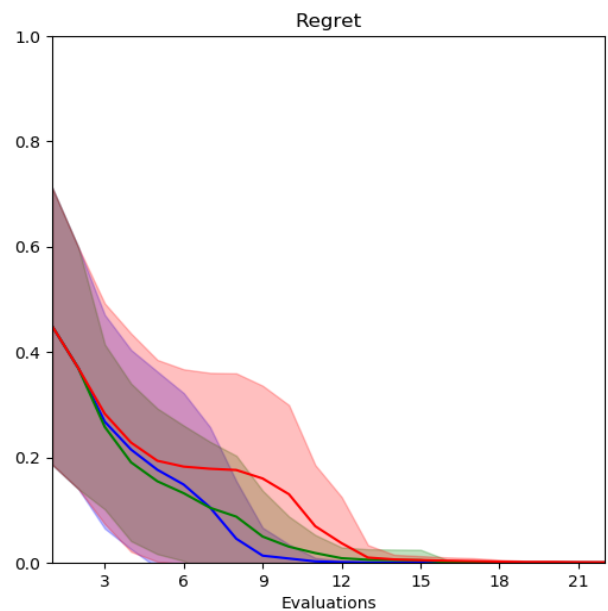
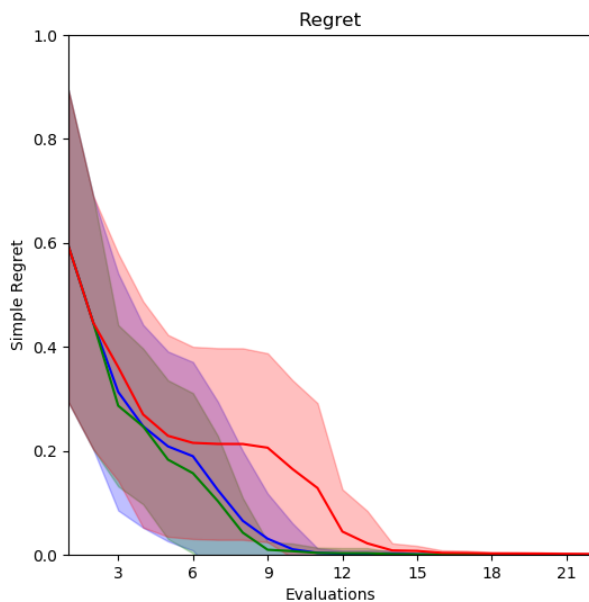


$$e^{-(x-2)^2} + e^{-\frac{(x-6)^2}{10}} + \frac{1}{x^2 + 1}$$

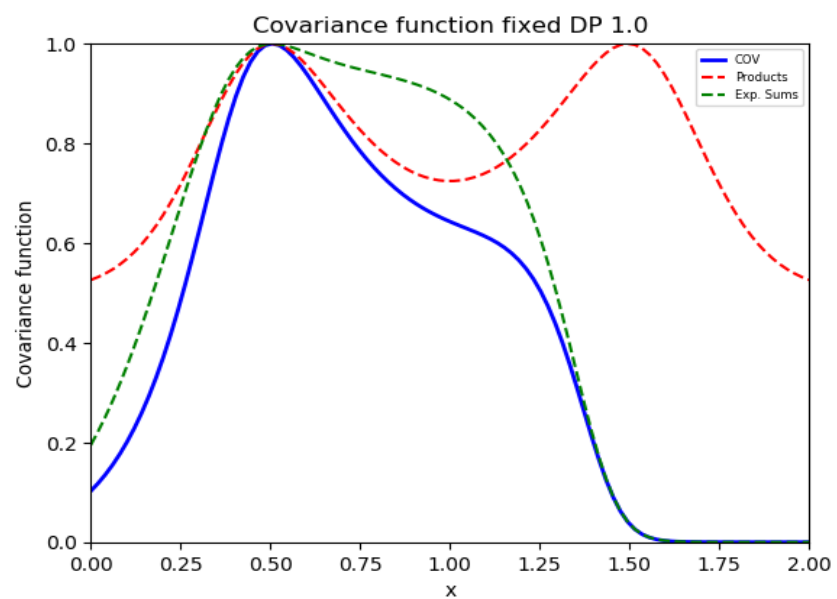
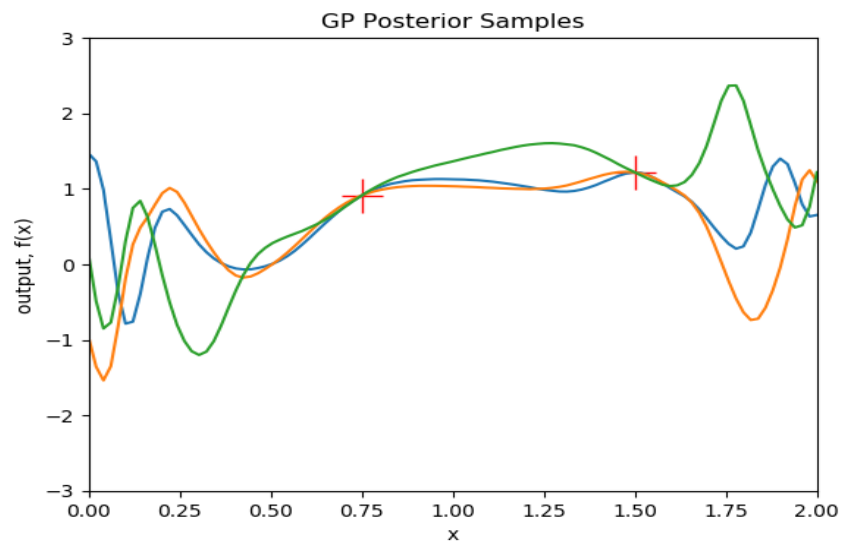
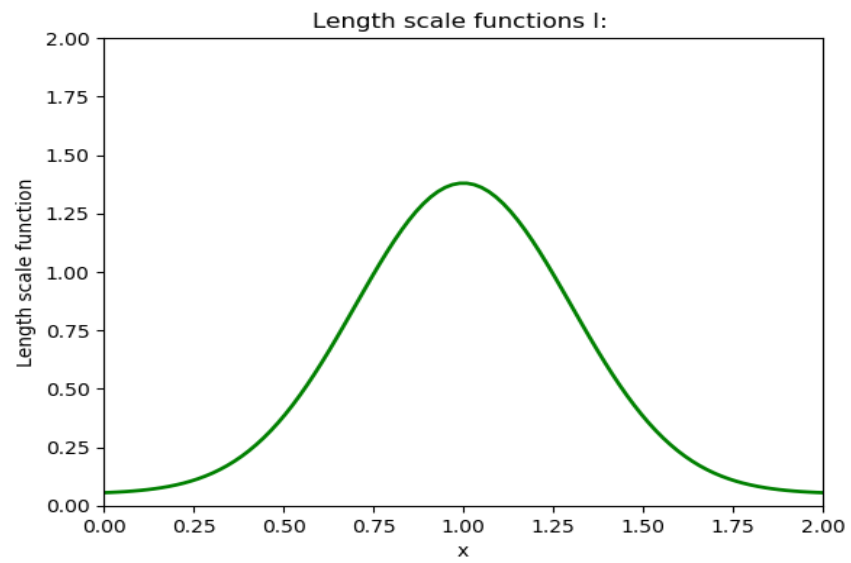
## Linear



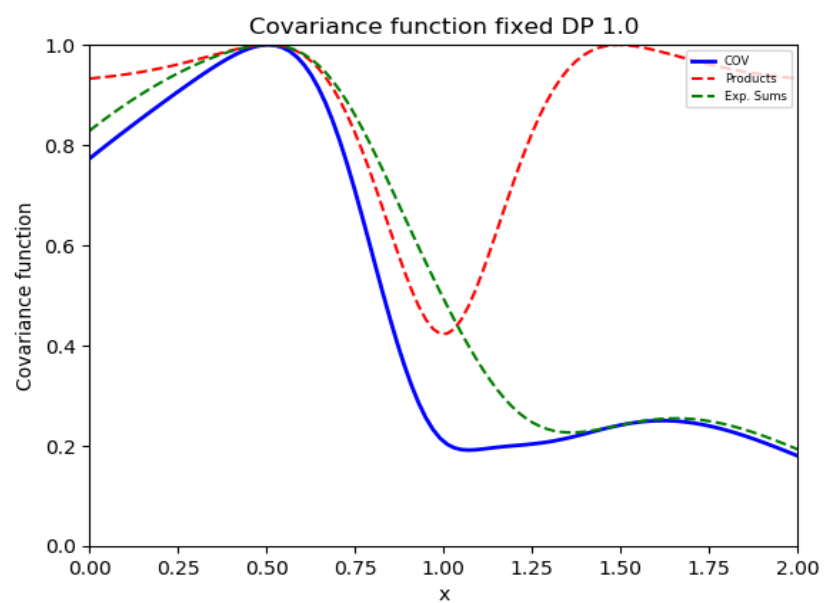
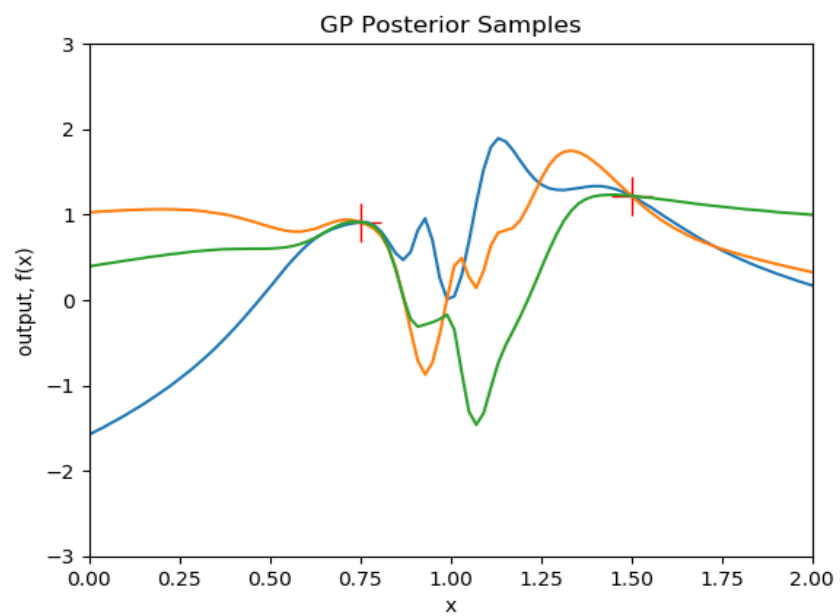
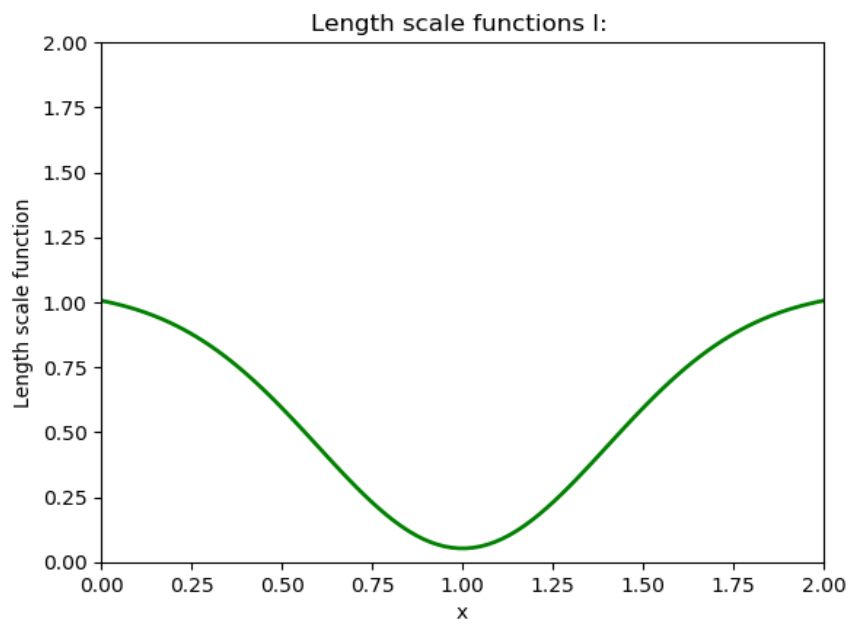
## Quadratic



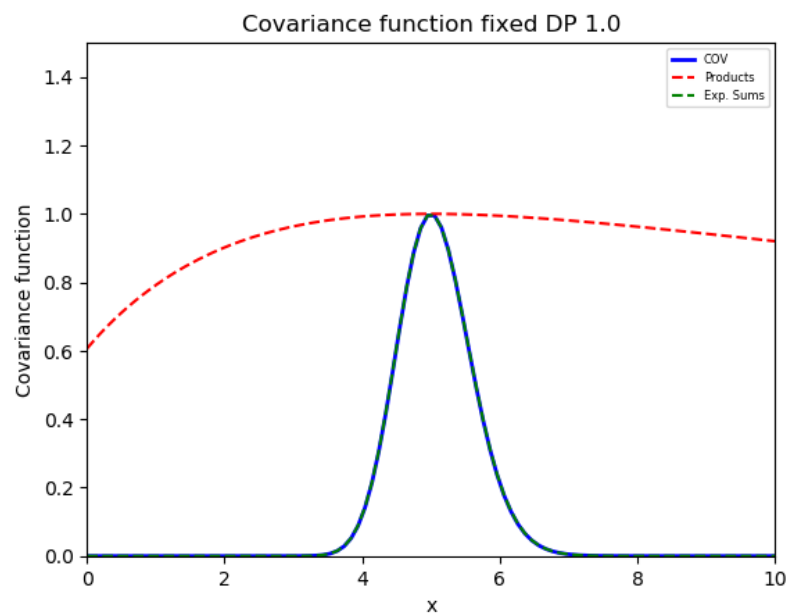
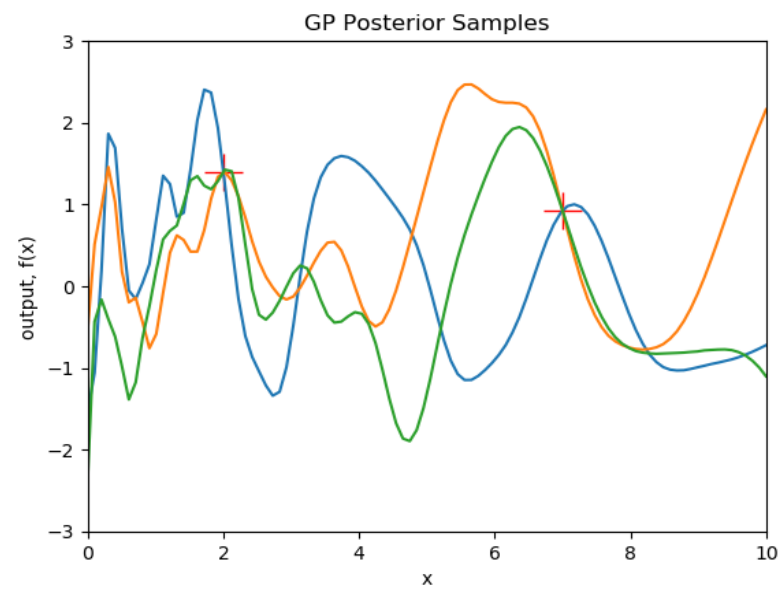
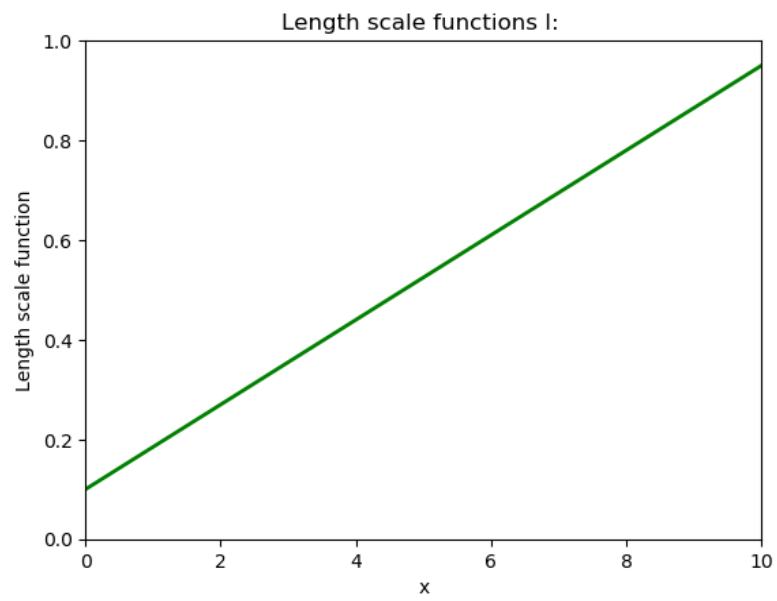
Concave Gaussian



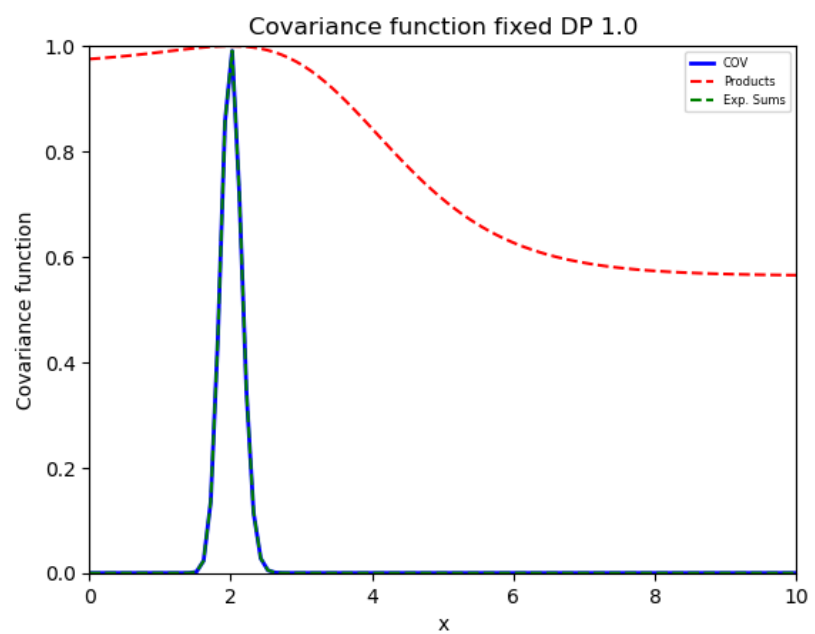
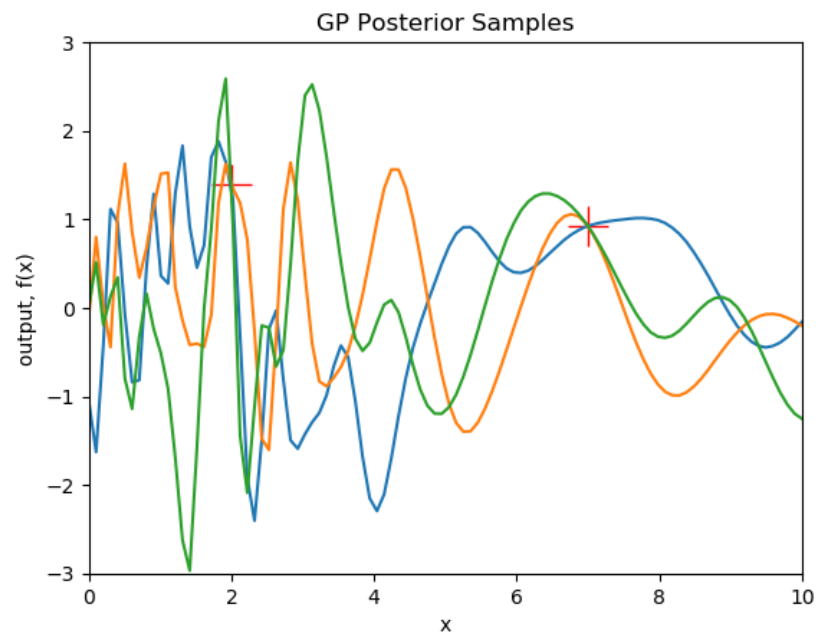
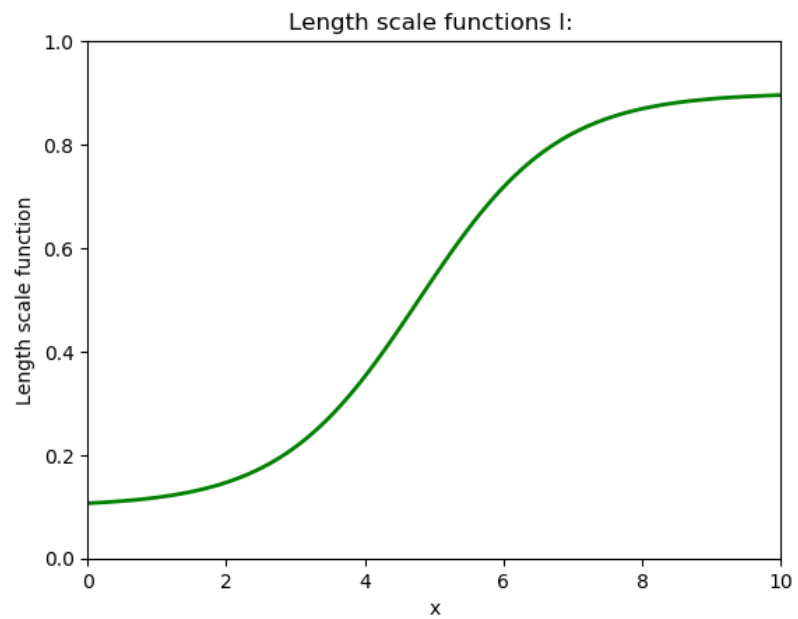
## Convex Gaussian



## Linear



## Logistic



## Quadratic Convex

