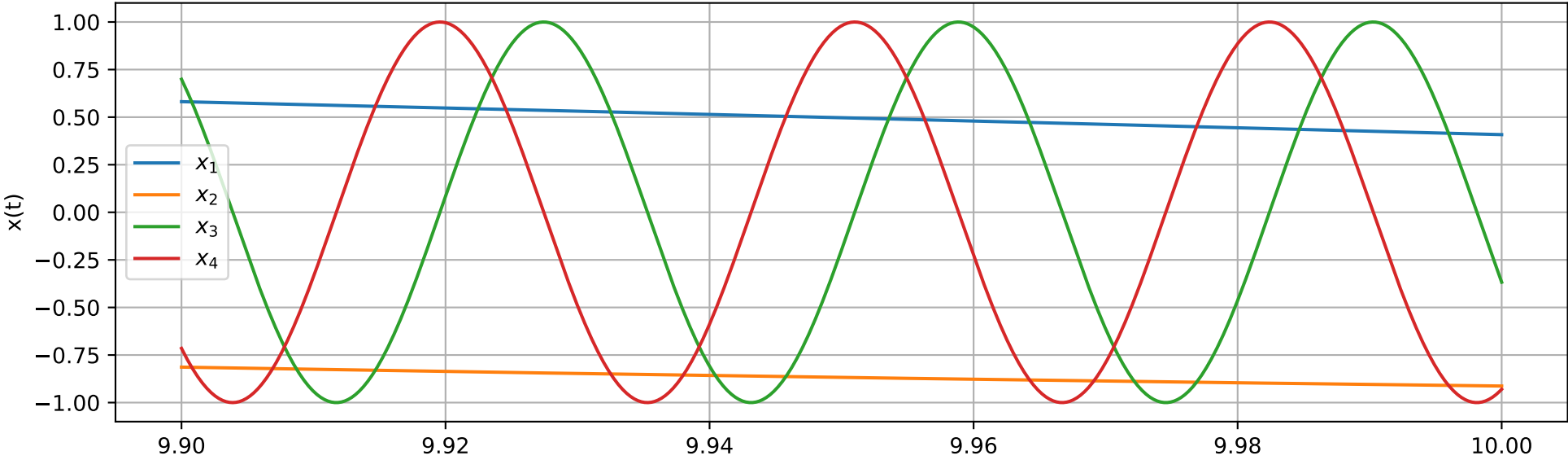
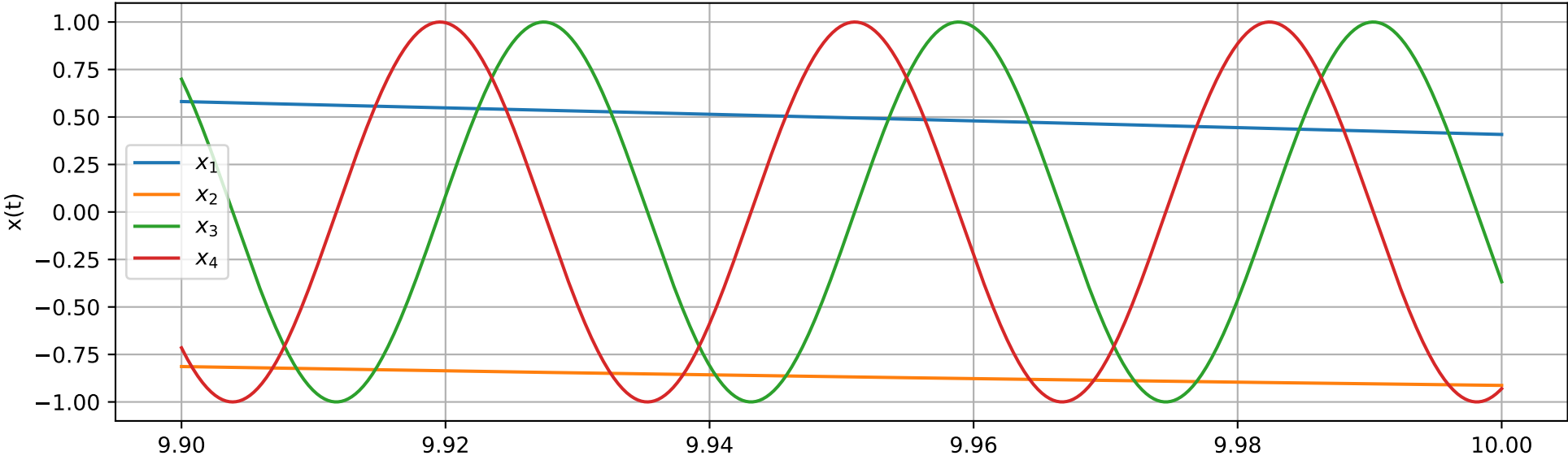


\* This plot shows the end of the evaluated range with a much more discrete step size. \*

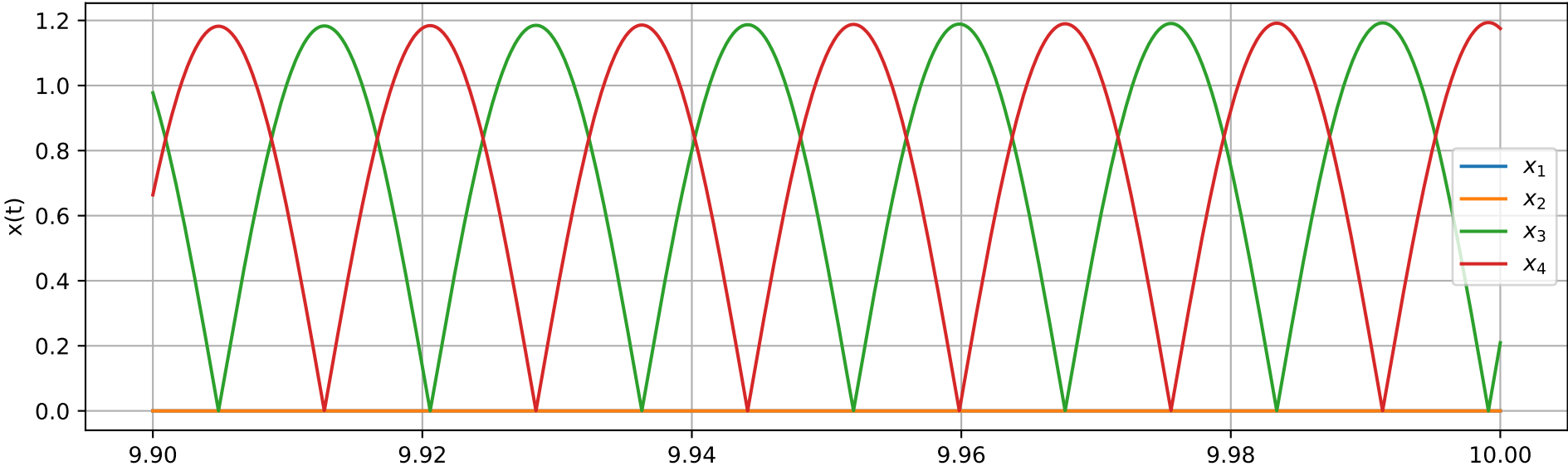
Analytical Solution shown from t = [9.9, 10.0] with step size: 1.000e-05.



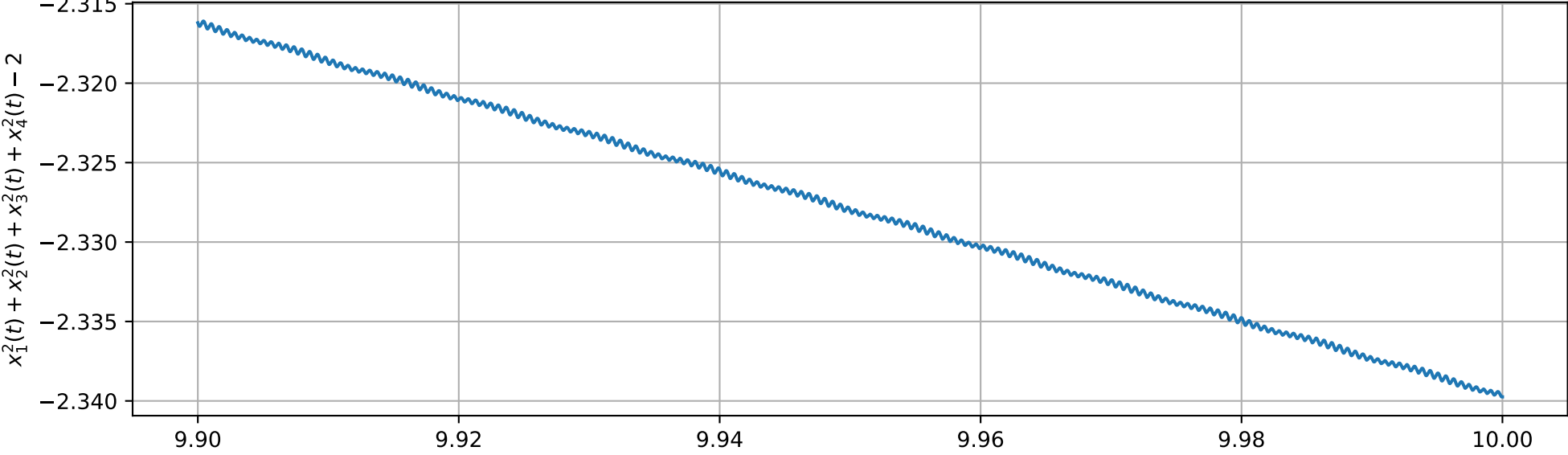
Numerical Solution shown from t = [9.9, 10.0] with step size: 1.000e-05.



Absolute Error shown from t = [9.9, 10.0] with step size: 1.000e-05.



Total Error shown from t = [9.9, 10.0] with step size: 1.000e-05.



Maximum Error for x1: 7.550e-15  
Maximum Error for x2: 7.661e-15  
Maximum Error for x3: 1.193e-05  
Maximum Error for x4: 1.194e-05

Tolerance based on  $x_1^2(t) + x_2^2(t) + x_3^2(t) + x_4^2(t) - 2$ : [-2.340e-05, 2.346e-09]