1-a-

M1 = [1.392475784017481; 0.274394447857832]

M2 = [1.792300468896262; 0.238512453288979]



b&c) Calculate and comment on the model parameter correlation matrix (e.g., 2.43).

How are the correlations manifested in the general appearance of the error ellipsoid in .t0, s2/ space?



This shows that the two parameters are highly negatively correlated and as result it is expected that the projection would be needle alike with its long principal axis having a negative slope.

d)

chi2 = 112.4223

chi-square p-value = 0



chi2pdf(112.4223, 4) = 1.0879e-23