

project  
*da best group*  
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**Question 1**

Maximum log-likelihood value is -229.082725415335  $\theta_1 = -1.7200385547829$  and  $\theta_2 = 1.5633363290673$   
Estimate of the var-covar is  $\begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix}$  0.0010950811 0.0003872932  $\begin{bmatrix} 2 & 0.0003872932 \\ 0.0002617509 \end{bmatrix}$