Quiz 3

A) Log Lit likead:
$$\sum_{i=1}^{n} (B_{0}(1-x_{i}) + \beta_{i} x_{i}) = \sum_{i=1}^{n} \log (1+e^{\beta_{0}(1-x_{i})} + \beta_{i} x_{i})$$

B) $\sum_{i \in C_{0}} (\beta_{0} y_{i}) - \sum_{i \in C_{0}} \log (1+e^{\beta_{0}}) + \sum_{i \in C_{0}} ((\beta_{0} y_{i}) - \sum_{i \in C_{0}} \log (1+e^{\beta_{0}}))$
 $\Rightarrow = n_{0} B_{0} y_{0} - n_{0} \log (1+e^{\beta_{0}}) + n_{1} B_{1} y_{0} - n_{1} \log (1+e^{\beta_{0}})$
 $\Rightarrow \beta_{0} = n_{0} y_{0} - \frac{p_{0}}{1+e^{\beta_{0}}} = 0$
 $\Rightarrow y_$