Discreption i.
$$(x_{i1}, x_{i2}, ..., x_{ik}, y_{i})$$
,

 $Z_{i} = \beta_{0} + \beta_{i} x_{i1} + \beta_{2} x_{i2} + ... + \beta_{K} x_{ik}$
 $f(y | \vec{x}, \beta) = G(Z_{i}) \cdot G[1 - G(Z_{i})]$
 $L(\beta) = y_{i} \log[G(Z_{i})] + (1 - y_{i}) \cdot \log[1 - G(Z_{i})]$
 $L(\beta) = \sum_{i=1}^{n} \{i, \beta\}$
 $= \sum_{i=1}^{n} \{y_{i} \log[G(Z_{i})] + (1 - y_{i}) \cdot \log[1 - G(Z_{i})]\}$
 x_{i1}, x_{i2}, x_{i3}
 $y_{i2} = y_{i3}$
 $y_{i3} = y_{i4}$
 $y_{i4} = y_{i4}$
 $y_{i5} = y_{i4}$
 $y_{i5} = y_{i5}$
 $y_{i5} = y_{i5}$

$$\frac{\partial P(\lambda=1|x)}{\partial x^2} = \frac{g(x) \cdot \beta^2}{g(x)} = \frac{g(x) \cdot \beta^2}{g(x)} = \frac{g(x) \cdot \beta^2}{g(x)}$$