$$\hat{\gamma}_g = \bar{y}_{g.} - \bar{y}$$

$$\hat{\delta}_h = \bar{y}_{.h} - \bar{y}$$

(a) Show that the model sum of squares can be written as

$$HK\sum_{g=1}^{G} \hat{\gamma}_g^2 + GK\sum_{h=1}^{H} \hat{\delta}_h^2$$