Практическое задание № 2.

$$b_{2}^{\text{MHK}} = \frac{\sum_{i=1}^{n} (p_{i} - \overline{p})(w_{i} - \overline{w})}{\sum_{i=1}^{n} (w_{i} - \overline{w})^{2}} = \frac{\sum_{i=1}^{n} ([\beta_{1} + \beta_{2}w_{i} + u_{pi}] - [\beta_{1} + \beta_{2}\overline{w} + \overline{u}_{p}])(w_{i} - \overline{w})}{\sum_{i=1}^{n} (w_{i} - \overline{w})^{2}} = \frac{\sum_{i=1}^{n} (\beta_{2}(w_{i} - \overline{w})(w_{i} - \overline{w}) + (u_{pi} - \overline{u}_{p})(w_{i} - \overline{w}))}{\sum_{i=1}^{n} (w_{i} - \overline{w})^{2}} = \beta_{2} + \frac{\sum_{i=1}^{n} (u_{pi} - \overline{u}_{p})(w_{i} - \overline{w})}{\sum_{i=1}^{n} (w_{i} - \overline{w})^{2}}.$$

$$(\Upsilon)$$