JARNÍK'S NOTES OF THE LECTURE COURSE

ALLGEMEINE IDEALTHEORIE

by B.L. van der WAERDEN (Göttingen 1927/1928)

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$$\sum a_i x^i \left(\sum b_k x^k + \sum c_k x^k \right)$$

$$= \sum a_i x^i \sum (b_k + c_k) x^k$$

$$= \sum_l \left(\sum_{i+k=l} a_i(b_k + c_k) \right) x^l$$

$$= \sum_l \left(\sum_{i+k=l} a_i b_k \right) x^l + \sum_l \left(\sum_{i+k=l} a_i c_k \right) x^l$$

$$= \sum a_i x^i \sum b_k x^k + \sum a_i x^i \sum c_k x^k$$