

Trachtenberg System Notes

Simple Method of Division (Cutler and McShane translation of Trachtenberg, page 135) [?]

$$A = \sum_{k=0}^N 10^k a_k$$

$$B = \beta A = \beta \sum_{k=0}^N 10^k a_k = \sum_{k=0}^N 10^k \beta a_k = \sum_{k=0}^N 10^k b_k$$

$$\rightarrow \beta \sum_{k=0}^N a_k = \sum_{k=0}^N b_k$$

References

- [1] R. M. J. Trachtenberg, translated by A. Cutler, *The Trachtenberg Speed System of Basic Mathematics*. Doubleday and Company, Inc., 1960.