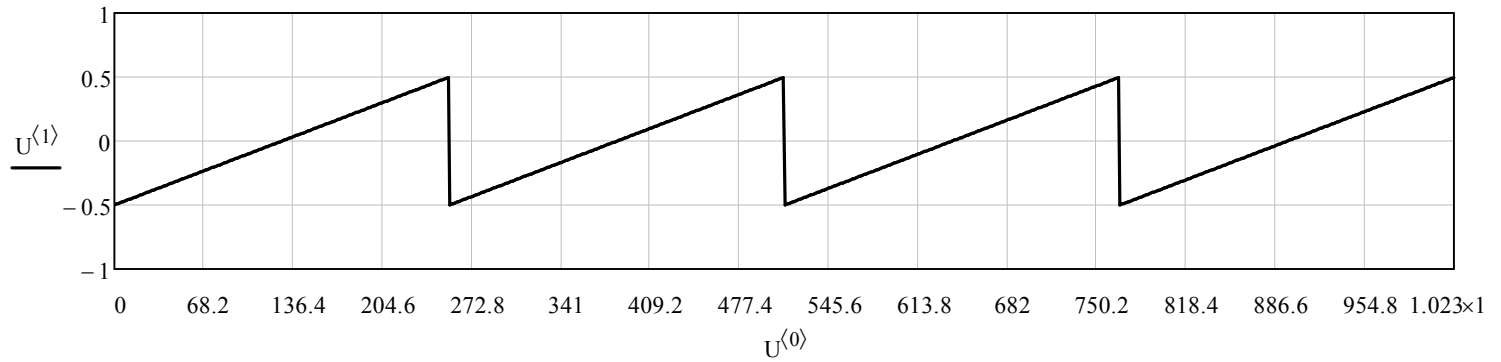
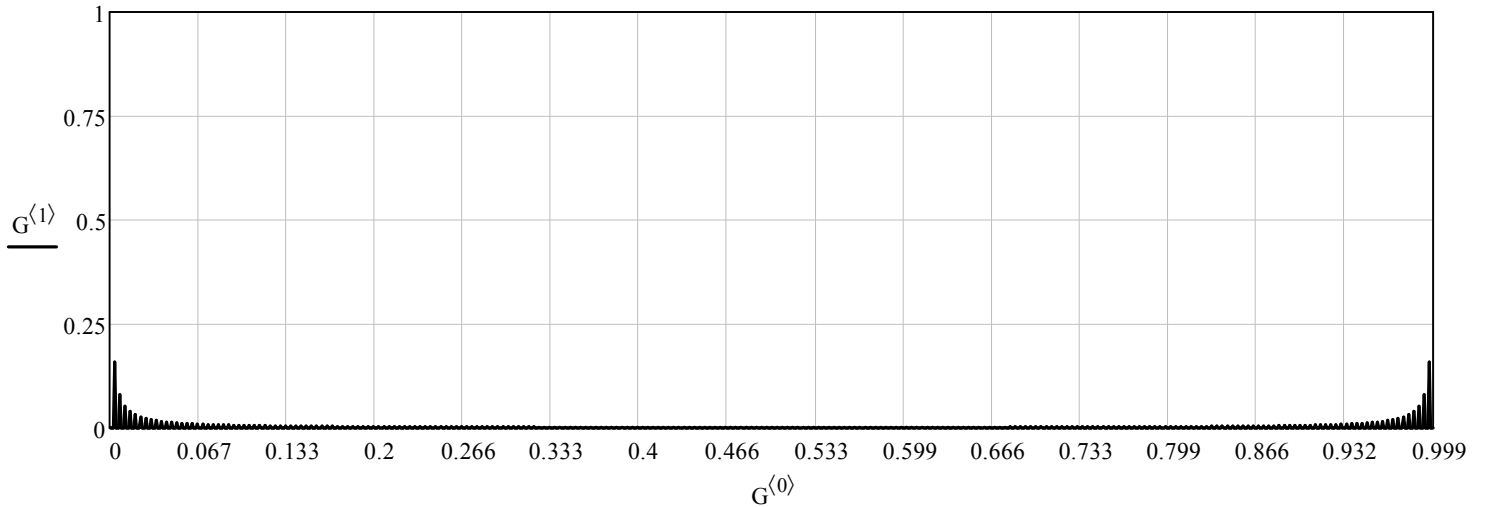
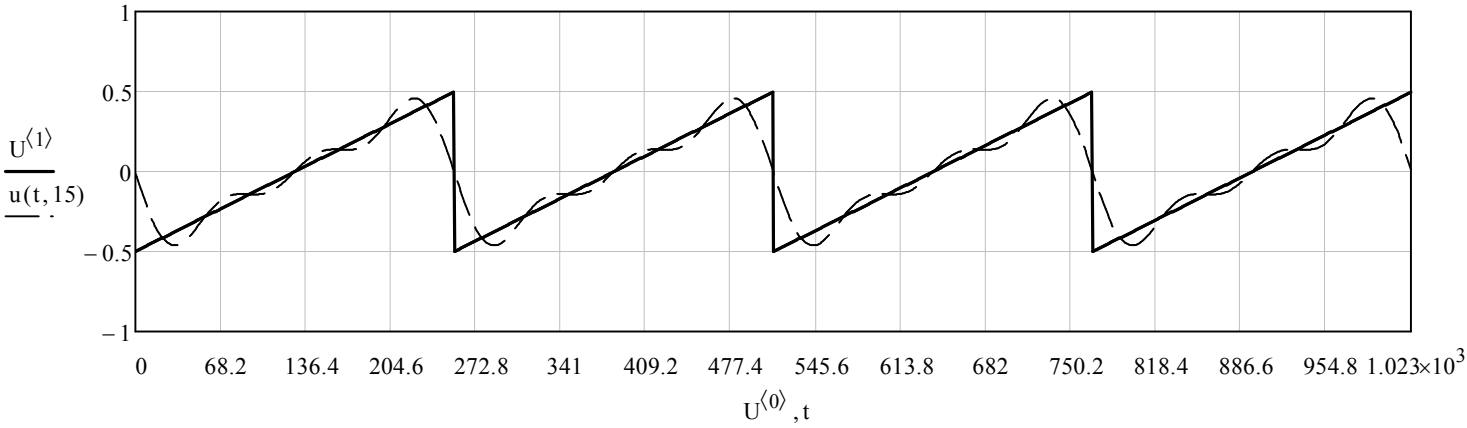


$$U := \left| \begin{array}{l} t \leftarrow \text{foreach}(r2(0, N-1), 'n \leftarrow n \cdot t) \\ \text{augment}(t, u) \end{array} \right.$$

$$S := \text{CFFT}(u)$$
$$G := \left| \begin{array}{l} f \leftarrow \text{foreach}(\text{r2}(0, N-1), (n) \leftarrow n \cdot f) \\ \text{augment}(f, \overrightarrow{|S|}) \end{array} \right|$$


$$w_1 := \frac{2\cdot}{N} \quad a := 2\cdot \text{Re}(S) \quad b := -2\cdot \text{Im}(S)$$

$$u(t,n) := \left\{ \begin{array}{l} c \leftarrow \text{foreach}\big(r2(0,n), '(k) \leftarrow a_k \cdot \cos\big(k \cdot w_1 \cdot t\big)\big) \\ s \leftarrow \text{foreach}\big(r2(0,n), '(k) \leftarrow b_k \cdot \sin\big(k \cdot w_1 \cdot t\big)\big) \\ \frac{a_0}{2} + \sum \text{foreach}\big(r2(1,n), '(k) \leftarrow c_k + s_k\big) \end{array} \right.$$

$$t := 0, \quad t..(N-1) \cdot \quad t$$



$$\text{time}(0) - \text{start} = 0.406$$