

THE LATER TO THE EDITOR

In my paper "On the equivalence of classes of infinitely differentiable functions" (cf. Izv. Akad. Nauk Armenian SSR, Ser. Mat. 19 (1984) 19—30) the text beginning with the line 16 from the top on page 28 and ending with the line 6 from the top on page 29 should be replaced by the following:

Let

$$f(x) = \partial \frac{T_{[r]}(l_1^{-1}x)}{U_{L^f}(r)} \quad x \in I, \quad r \geq 1.$$

Since

$$f^{(n)}(x) = \frac{\partial l_1^{-n} T_{[r]}^{(n)}(l_1^{-1}x)}{U_{L^f}(r)}, \quad \text{for } n \leq r,$$

$$= 0 \quad \text{for } n > r$$

and $|T_{[r]}^{(n)}(x)| \leq r^n e^{|x|}$ for all $x \in \mathbb{R}$, we have

$$|f^{(n)}(x)| \leq \partial r^n e^{l_1^{-1}l} L_n^f, \quad \text{for } x \in A_l \quad \text{and } n \leq r.$$

Thus $f \in F$. Also

$$p_{l_1}(f) = \sup_{n \leq r} \left\{ \max_{x \in A_{l_1}^f} |f^{(n)}(x)| \right\} (L_n^f)^{-1} =$$

$$= \frac{\partial}{U_{L^f}(r)} \sup_{n \leq r} \frac{l_1^{-n} |T_{[r]}^{(n)}(1)|}{L_n^f} =$$

$$= \frac{\partial}{U_{L^f}(r)} \sup_{n \leq r} \left(\frac{e}{2} \right)^n l_1^{-n} \frac{r^{2n}}{n^n L_n^f}$$

$$\leq \frac{\partial}{U_{L^f}(r)} \sup_{n \leq l_0} \frac{r^{2n}}{n^n L_n^f} = \delta.$$

Therefore, $f \in V_{j_0, l}$, where we can suppose $l_0 > l_1$. Thus for $n \leq r$

$$\frac{\partial l_1^{-n} |T_{[r]}^{(n)}(1)|}{U_{L^f}(r)} \leq j_0^{n+1} M_n^f$$

or

$$\partial \left(\frac{2}{en} \right)^n \left(\frac{r}{2} \right)^{2n} \frac{1}{U_{L^f}(r)} \leq j_0^{n+1} M_n^f.$$

Since for fixed n , this inequality holds for each $r \geq n$, we get

$$\partial \left(\frac{1}{4e} \right)^n \frac{1}{n^n} \sup_{n \leq r} \frac{r^{2n}}{U_{L^f}(r)} \leq j_0^{n+1} M_n^f$$

or

$$L_n^f \leq \partial^{-1} (4e)^n j_0^{n+1} M_n^f.$$