Corrections for Section 7

Page 2, beginning of proof: delete extraneous right parenthesis in $D_x f'(a)y$

Page 2, notation and terminology:

$$D_{i_1 \cdots i_k} f = D_{i_1} \cdots D_{i_k} f$$ should be $$D_{i_1 \cdots i_k} f = D_{i_1} \cdots D_{i_k} f$$

Page 3, lines 3–4: in the last two lines of this proof, $f''(a)$ should be $f(a)$, because of the directional derivatives

Page 5, line 5: change “$j = 1$ by the Chain Rule” to “$j = 0$ by definition”, and also change $1 \leq j \leq n$ to $0 \leq j \leq n$

Page 5, middle: delete 3 lines in displayed computation which begin with $\frac{d}{dt}$

Page 5, Corollary 10: at end of first displayed equation, change $i_j$ to $i_k$ both times in

$$\frac{1}{k!} \sum_{i_1, \ldots, i_k=1}^n D_{i_1 \cdots i_k} f(a + tx_{i_1} \cdots x_{i_j})$$

Page 6, Definition 12 (2): change $x \in 0$ to $x \neq 0$

Page 6, Corollary 15 (2): change $f(x) > f(a)$ to $f(x) < f(a)$

Page 6, proof of Corollary 15 (3): change $t \in \mathbb{R}$ to $t > 0$