

Abbott: 4.3.2, 4.3.6(a), 4.3.7, 4.4.4, 4.4.6, 4.4.8, 4.4.13(a)

4.3.2 Given $f : A \rightarrow \mathbb{R}$, $g : B \rightarrow \mathbb{R}$, $f(A) \subseteq B$ s.t. $g \circ f(x)$ is well defined on A .

f cts at $c \in A$, g cts at $f(c) \in B \implies g \circ f$ cts at c .

- (a) Supply a proof using ϵ - δ characterization of continuity.
(b) Give another proof using sequential characterization of continuity (Theorem 4.3.2 (iv)).

(a) If c is an isolated point, then $\exists N_\delta(c) : N_\delta(c) \cap A = \{c\}$. Then since c is the only element in $N_\delta(c)$, $\forall x \in N_\delta(c)$, $g \circ f(x) = g \circ f(c) \in N_\epsilon(g \circ f(c))$ for any $\epsilon > 0$, showing $g \circ f$ cts (Thm 4.3.2). Thus, assume c is a limit point. Since f cts at c , $c \in A$.

Let $\epsilon > 0$ be arbitrary.

Since g cts at $f(c)$, $\exists \zeta_0 > 0$ s.t. $|f(x) - f(c)| < \zeta_0 \implies |g \circ f(x) - g \circ f(c)| < \epsilon$.

Since f cts at c , $\exists \delta_0 > 0$ s.t. $|x - c| < \delta_0 \implies |f(x) - f(c)| < \zeta_0$.

Taken together:

$$|x - c| < \delta_0 \implies |f(x) - f(c)| < \zeta_0 \implies |g \circ f(x) - g \circ f(c)| < \epsilon$$

So $x \in N_{\delta_0}(c) \implies g \circ f(x) \in N_\epsilon(g \circ f(c))$. Since ϵ arbitrary, by Theorem 4.3.2 $g \circ f$ cts. ■

(b) If c is an isolated point, then for any sequence $(x_n) \subseteq A$ converging to c , $\exists N_0 \in \mathbb{N} : \forall n \geq N_0, x_n = c$. This implies $\forall n \geq N_0, g \circ f(x_n) = g \circ f(c)$ and therefore $(g \circ f(x_n)) \rightarrow g \circ f(c)$, proving $g \circ f$ cts (Thm 4.3.2). Thus, assume c is a limit point.

Let (x_n) be an arbitrary sequence s.t. $(x_n) \rightarrow c$, $c \in A$, f cts at c .

Since f cts at c , $(x_n) \rightarrow c \implies (f(x_n)) \rightarrow f(c)$.

Since g cts at $f(c)$ and $(f(x_n)) \in f(A) \subseteq B$, $(f(x_n)) \rightarrow f(c) \implies (g \circ f(x_n)) \rightarrow g \circ f(c)$.

Taken together:

$$(x_n) \rightarrow c \implies (f(x_n)) \rightarrow f(c) \implies (g \circ f(x_n)) \rightarrow g \circ f(c)$$

So $(x_n) \rightarrow c \implies (g \circ f(x_n)) \rightarrow g \circ f(c)$. Since (x_n) and c arbitrary, by Theorem 4.3.2 $g \circ f$ cts. ■

4.3.6(a) Prove that Dirichlet's function:

$$g(x) = \begin{cases} 1 & \text{if } x \in \mathbb{Q} \\ 0 & \text{if } x \notin \mathbb{Q} \end{cases}$$

is nowhere continuous.

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Yi-Tong Ma



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