

Real Analysis: Solutions to Exercise Sheet 6

1. (a) The function x and $\sin(x)$ are continuous everywhere, using the Combination theorem we see that the function $\frac{1}{x}$ is continuous for $x \neq 0$ and hence using the Combination theorem and the Composition of function we see that $x \sin(\frac{1}{x})$ is continuous for $x \neq 0$.

Now, we have

$$-|x| \leq x \sin\left(\frac{1}{x}\right) \leq |x| \quad \forall x$$

and

$$\lim_{x \rightarrow 0} -|x| = \lim_{x \rightarrow 0} |x| = 0.$$

Thus using the Sandwich Rule we get that

$$\lim_{x \rightarrow 0} x \sin\left(\frac{1}{x}\right) = 0 = f(0).$$

Hence, $f(x)$ is continuous at $x = 0$.

(b)

$$\begin{aligned} \lim_{x \rightarrow +\infty} x \sin\left(\frac{1}{x}\right) &= \lim_{x \rightarrow +\infty} \frac{\sin\left(\frac{1}{x}\right)}{\frac{1}{x}} \\ &= \lim_{t \rightarrow 0^+} \frac{\sin(t)}{t} = 1, \\ \lim_{x \rightarrow -\infty} x \sin\left(\frac{1}{x}\right) &= \lim_{x \rightarrow -\infty} \frac{\sin\left(\frac{1}{x}\right)}{\frac{1}{x}} \\ &= \lim_{t \rightarrow 0^-} \frac{\sin(t)}{t} = 1. \end{aligned}$$

2. (a) Consider the function $f(x) = xe^{\sin(x)} - \cos(x)$. Using the Combination theorem and Composition of function, $f(x)$ is continuous everywhere. Now, $f(0) = -1$ and $f(\frac{\pi}{2}) = \frac{\pi}{2}e > 0$. So we can apply the intermediate value theorem on $[0, \frac{\pi}{2}]$ which tells us that there exists $0 < c < \frac{\pi}{2}$ with $f(c) = 0$.
- (b) Consider the function $f(x) = 2 \sin(x) - x^2 + 1$. Using the Combination theorem, $f(x)$ is continuous everywhere. Now, $f(1) = 2 \sin(1) > 0$ and $f(2) = 2 \sin(2) - 3 < 0$. So we can apply the intermediate value theorem on $[1, 2]$ to deduce that there exists $1 < c < 2$ with $f(c) = 0$.
- (c) Consider the function $f(x) = 17x^7 - 19x^3 - 1$. Using the Combination theorem, $f(x)$ is continuous everywhere. Now $f(-1) = -17 + 19 - 1 = 1 > 0$ and $f(0) = -1 < 0$. So we can apply the intermediate value theorem to deduce that there exists $-1 < c < 0$ with $f(c) = 0$.

Solutions Real Analysis Dupree

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