

2.1.7. a) Let a be the common limit point. Given $\varepsilon > 0$, choose $N \in \mathbb{N}$ such that $n \geq N$ implies $|f_n - a|$ and $|g_n - a|$ are both $< \varepsilon/2$. By the Triangle Inequality, $n \geq N$ implies

$$|f_n - g_n| \leq |f_n - a| + |g_n - a| < \varepsilon.$$

By definition, $x_n - y_n \rightarrow 0$ as $n \rightarrow \infty$.

b) If a converges to some a , then given $\varepsilon = 1/2$, $1 = |f(n+1) - a| < |f(n+1) - a| + |f_n - a| < 1$ for n sufficiently large, a contradiction.

c) Let $x_n = n$ and $y_n = n + 1/n$. Then $|f_n - g_n| = 1/n \rightarrow 0$ as $n \rightarrow \infty$, but neither x_n nor y_n converges.

2.1.8. By Theorem 2.6, if $x_n \rightarrow a$ then $x_{n_k} \rightarrow a$. Conversely, if $x_{n_k} \rightarrow a$ for every subsequence, then it converges for the "subsequence" x_n .

2.2 Limit Theorems.

2.2.0. a) False. Let $x_n = n^2$ and $y_n = -n$ and note by Exercise 2.2.2a that $x_n + y_n \rightarrow \infty$ as $n \rightarrow \infty$.

b) True. Let $\varepsilon > 0$. If $x_n \rightarrow -\infty$ as $n \rightarrow \infty$, then choose $N \in \mathbb{N}$ such that $n \geq N$ implies $x_n < -1/\varepsilon$. Then $x_n < 0$ so $|f_n| = -x_n > 0$. Multiply $x_n < -1/\varepsilon$ by $\varepsilon/(-x_n)$ which is positive. We obtain $-\varepsilon < 1/x_n$, i.e., $|1/x_n| = -1/x_n < \varepsilon$.

c) False. Let $x_n = (-1)^n/n$. Then $1/x_n = (-1)^n n$ has no limit as $n \rightarrow \infty$.

d) True. Since $(2^n - x)^2 = 2^n \log 2 - 1 > 1$ for all $x \geq 2$, i.e., $2^n - x$ is increasing on $[2, \infty)$. In particular, $2^n - x \geq 2^2 - 2 > 0$, i.e., $2^n > x$ for $x \geq 2$. Thus, since $x_n \rightarrow \infty$ as $n \rightarrow \infty$, we have $2^n > x_n$ for n large, hence

$$2^{-x_n} < \frac{1}{x_n} \rightarrow 0$$

as $n \rightarrow \infty$.

2.2.1. a) $|f_n| \leq 1/n \rightarrow 0$ as $n \rightarrow \infty$ and we can apply the Squeeze Theorem.

b) $2n\sqrt{(n^2 + x)} = (2\sqrt{n})\sqrt{(1 + x/n^2)} \rightarrow 0\sqrt{(1 + 0)} = 0$ by Theorem 2.12.

c) $(-2n + 1)\sqrt{n + 2} = ((-2\sqrt{n}) + (1/n))\sqrt{(1 + (2/n))} \rightarrow 0\sqrt{(1 + 0)} = 0$ by Exercise 2.2.5 and Theorem 2.12.

d) An easy induction argument shows that $2n + 1 < 2^n$ for $n = 3, 4, \dots$. We will use this to prove that $n^2 \leq 2^n$ for $n = 4, 5, \dots$. It's surely true for $n = 4$. If it's true for some $n \geq 4$, then the inductive hypothesis and the fact that $2n + 1 < 2^n$ imply

$$(n + 1)^2 = n^2 + 2n + 1 \leq 2^n + 2n + 1 < 2^n + 2^n = 2^{n+1}$$

so the second inequality has been proved.

Now the second inequality implies $n/2^n < 1/n$ for $n \geq 4$. Hence by the Squeeze Theorem, $n/2^n \rightarrow 0$ as $n \rightarrow \infty$.

2.2.2. a) Let $M \in \mathbb{R}$ and choose by Archimedes an $N \in \mathbb{N}$ such that $N > \max\{M, 2\}$. Then $n \geq N$ implies $n^2 - n = n(n - 1) \geq N(N - 1) > M(2 - 1) = M$.

b) Let $M \in \mathbb{R}$ and choose by Archimedes an $N \in \mathbb{N}$ such that $N > -M/2$. Notice that $n \geq 1$ implies $-3n \leq -3$ so $1 - 3n \leq -2$. Thus $n \geq N$ implies $n - 3n^2 = n(1 - 3n) \leq -2n \leq -2N < M$.

c) Let $M \in \mathbb{R}$ and choose by Archimedes an $N \in \mathbb{N}$ such that $N > M$. Then $n \geq N$ implies $(n^2 + 1)/n = n + 1/n \geq N + 0 > M$.

d) Let $M \in \mathbb{R}$ satisfy $M \leq 0$. Then $2 + \sin \theta \geq 2 - 1 = 1$ implies $n^2(2 + \sin(n^2 + n + 1)) \geq n^2 \cdot 1 > 0 \geq M$ for all $n \in \mathbb{N}$. On the other hand, if $M > 0$, then choose by Archimedes an $N \in \mathbb{N}$ such that $N > M$. Then $n \geq N$ implies $n^2(2 + \sin(n^2 + n + 1)) \geq n^2 \cdot 1 \geq N^2 > M$.

2.2.3. a) Following Example 2.13,

$$\frac{2 + 3n - 4n^2}{1 - 2n + 3n^2} = \frac{(2/\sqrt{n^2}) + (3/n) - 4}{(1/\sqrt{n^2}) - (2/n) + 3} \rightarrow \frac{-4}{3}$$

as $n \rightarrow \infty$.

b) Following Example 2.13,

$$\frac{n^2 + n - 2}{2n^3 + n - 2} = \frac{1 + (1/\sqrt{n^2}) - (2/\sqrt{n^2})}{2 + (1/\sqrt{n^2}) - (2/\sqrt{n^2})} \rightarrow \frac{1}{2}$$

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