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2012 State whether the following sets are open, closed, neither, or both:

- $f(x;y) : 1 < x < 1; y = 0$ gNeither
- $f(x;y) : x; y \text{ are integers}$ gClosed
- $f(x;y) : x+y = 1$ gclosed
- $f(x;y) : x+y < 1$ gopen
- $f(x;y) : x = 0 \text{ or } y = 0$ gclosed

Prove the following:

- Open balls are open sets

Take any $y \in B(x;r)$. Define $r_2 = r - d(y;x)$.

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4 FINAL EXAMINATION SOLUTIONS,
MAS311 REAL ANALYSIS I Proof. Let x_0
be an irrational real number and an $\varepsilon >$
 0 be given. Let N be large enough such
that $N \times \varepsilon > 1$ or equivalently $1/N < \varepsilon$.
Now let q be closest rational number to
 x_0 among the rational numbers with

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denominators not exceeding N , when written in lowest

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$5n^3 + 3n^2 + 5n + 6$ is a multiple of 6
which implies $(n+1)^3 + 5(n+1)$ is a

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multiple of 6. This completes our proof by induction, i.e., n^3+5n is divisible by 6 (or multiple of 6) for all natural numbers $n \geq 1$.

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very common in real analysis, since manipulations with set identities is often not suitable when the sets are complicated. Students are often not familiar with the notions of functions that are injective (=one-one) or surjective (=onto). Sample Assignment: Exercises 1, 3, 9, 14, 15, 20. Partial Solutions: 1.

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Ash's Probability & Measure Theory has complete solutions to many of the exercises. I discovered this about (the first edition of) Ash's book many years ago simply by browsing in a university library. If you

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have access to such a library, I suggest you simply go to the locations where real analysis texts are shelved (in the U.S., this will be in the QA 300 and QA 330 vicinities ...

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Clearly let $A = \lim_{x \rightarrow a} f(x)$, $B = \lim_{x \rightarrow b} f(x)$

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→ a $g(x)$. Suppose $A > B$. Now values of $f(x)$ are near A when x is near a . Similarly values of $g(x)$ are near B . Since $A > B$ we can obviously make values of f much nearer to A compared to B and values of g much nearer to B compared to A .

How does one get better at real

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awkward, or when contradiction follows rather ...

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2 CHAPTER 1. MATHEMATICAL PROOF Or they may be 2-place predicate symbols. These express relations. Example: $<$. Once the terms have been specified, then the atomic formulas are specified. A

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propositional symbol is an atomic formula.

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real analysis proofs solutions Solution. •
(a) We write the series as $f(x) = \sum_{n=2}^{\infty} a_n x^n$ where $a_n = (1 \text{ if } n \text{ is prime, } 0 \text{ if } n$

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isn't prime. • Then $|a_n x^n| \leq |x|$ for every $n = 2, 3, 4, \dots$. Therefore, if $|x| < 1$ the series converges by comparison with the convergent geometric series $\sum |x|^n$.

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