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2012 State whether the  
following sets are

open, closed, neither,  
or both: 1.  $f(x;y) : 1 < x$   
 $< 1; y = 0$ gNeither 2.

$f(x;y) : x;y$   
are integersgClosed 3.

$f(x;y) : x+y = 1$ gclosed

4.  $f(x;y) : x+y <$

$1$ gopen 5.  $f(x;y) : x = 0$

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ory = 0gclosed Prove  
the following:

1. Open balls are open sets  
Take any  $2B(x;r)$ .

Definer  $2 = r d(y;x) 2$ .

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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  
*Page 5/25*

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equivalently  $1/N < \epsilon$ .  
Now let  $q$  be closest  
rational number to  $x_0$   
among the rational  
numbers with  
denominators not  
exceeding  $N$ , when  
written in lowest

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

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implies  $(n+1)^3+5(n+1)$  is a 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



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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).

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

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much nearer to B  
compared to A.

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exercises. I give a thorough treatment of real-valued functions before considering vector-valued functions. In making the transition from one to several variables and from real-valued to vector-valued functions, I have left to the student some proofs that are essentially repetitions of earlier ...

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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

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speci ed. A  
propositional symbol is  
an atomic formula.

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solutions Solution. • (a)  
We write the series as  
 $f(x) = \sum_{n=2}^{\infty} a_n x^n$   
where  $a_n = (1$  if  $n$  is  
prime,  $0$  if  $n$  isn't  
prime. • Then  $|a_n x^n| \leq$   
 $|x|$  for every  $n =$

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2,3,4,... Therefore, if  $|x| < 1$  the series converges by comparison with the convergent geometric series  $\sum |x|^n$ .

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