

# Analysis With An Introduction To Proof

We now examine this situation a little more closely. Let  $A$  be the set of all positive rationals  $p$  such that  $p^2 < 2$  and let  $B$  consist of all positive rationals  $p$  such that  $p^2 > 2$ . We shall show that  $A$  contains no largest number and  $B$  contains no smallest.

More explicitly, for every  $p$  in  $A$  we can find a rational  $q$  in  $A$  such that  $p < q$ , and for every  $p$  in  $B$  we can find a rational  $q$  in  $B$  such that  $q < p$ .

To do this, we associate with each rational  $p > 0$  the number

$$(3) \quad q = p - \frac{p^2 - 2}{p + 2} = \frac{2p + 2}{p + 2}.$$

Then

$$(4) \quad q^2 - 2 = \frac{2(p^2 - 2)}{(p + 2)^2}.$$

If  $p$  is in  $A$  then  $p^2 - 2 < 0$ , (3) shows that  $q > p$ , and (4) shows that  $q^2 < 2$ . Thus  $q$  is in  $A$ .

If  $p$  is in  $B$  then  $p^2 - 2 > 0$ , (3) shows that  $0 < q < p$ , and (4) shows that  $q^2 > 2$ . Thus  $q$  is in  $B$ .

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