CH 3 Decimals

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1 Decimals

.11111.... is just a series of 0.1+.01+.001... which are all fractions use proof by ordering ; $\xi=$ pg 23.1=1.0000=.9999 (to different decimal expressions) Periodic decimals are rational $a_0.a_1...a_k\overline{b_1...b_l}$ where the period is the number of digits in a repeating sequence of smallest len rational \Rightarrow periodic and periodic \Rightarrow rational Because:, therefore: