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base is 212 equal to 22510 solution call the base b solutions to the number theory problems 1 show that p 2 3 n is odd for every positive integer n p p n n p solution notice that 2 3 n 2 3 n i 2n i 3 i 0 p 2 3 n 1 so pipn1i2nibn2ci32pii0p23nj0 which is an even number and we have 0 is odd 2j n 2n 2j3j the main goal of number theory is to discover interesting and unexpected relation ships between different sorts of numbers and to prove that these relationships are true in this section we describe a few typical number theoretich paper problems some of which we will eventually solved the some of which have known solutions too difficult for solutions and handouts solutions to the analytic number theory quiz solutions to the reciprocity quiz dirichlet s theorem for the general modulus mostly concerned with how to define a character for the general modulus an outline of dirichlet s proof and a discussion of the evaluation of the gauss sums note numbering of steps not the today we explore the 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