Page No. Roading 1.1 (a) We as proof by cases. how 1: q(n) is non-constant (a) Let q(n) = b n^{k+1} b, n^{k lase 2: g(m) = c which is a multiple of c Some the proposition is but for both cases, it is (b) Consider all n of the form c'm where n, m & IN

Lince q(n) = q(cm) is a multiple of c and

leccours q(n)=q(m) ignows unboundards as m grows the

there are infinitely meny, of distinct q(n) as

freshess there are infinite m & IN. He above

argument is for a b, > 0. If b < 0 is replace grows & fulls

mall since q(n) is a multiple of c by

alore lemma, and C>, q(n) has were fectors

Completely took greater than 1 for infinitely many n as gin grows unloundedly a n gran tence, all such g(n) & I are not brume. (c) If C < 1 them there are fiture asso: C=100 = C<0

lase 1: C=100 9(0): C=100 mot a frume

(c) 2: C < 0 9(0) 1= C < 0 multiple control to a frume

thence, by leverner(b) and lemence (c), for every non-constant

hadronomial 9. Il. multiple constant in the glant mother

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