08 October 2023 10:59

Prove that for positive integer N, I a positive integer m such that each term to mm +1, ... is divisible by N. of m+1, mm+1, mm +1, ... is divisible by N.

 $Am^{1} = N + 1, M^{m+1}, M + 1$  K = M + 1 M = (Kn - 1) + 1, M + 1 + 1 M = (Kn - 1) + 1, M + 1 + 1 M = (Kn - 1) + 1, M + 1 + 1 M = (Kn - 1) + 1, M + 1 + 1 M = (Kn - 1) + 1, M + 1 M = (Kn - 1) + 1, M + 1 M = (Kn - 1) + 1, M + 1 M = (Kn - 1) +

Show that the cube rooks of three distinct prime numbers

(our of be three towns (not necessarily consecutive) of

on arithmetic progression

Ans - a, a+d, a+2d, -
(Howellow) Huts - P, P2, P3, 3(P3-\$P2=kpd)

(Howellow) 4(P2-\$P1=k2d)

B> Prove that the sum and product of two relahrely prime integers are themselves relatively prime

Ans' - g(d(a,b)=1 g(d(ab,b)=bg(d(ab,a)=a

Suppose a prime p (ab => pla or plb but not together

Supper a prime p | ab => pin or | 12

if pla alptb >> p/(a+b)

if pra adp|b >> p/(a+b)

>> plab >> p/(a+b)