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## Research Details :

Research Title : *On commutativity of rings involving certain polynomial constraints*  
*On commutativity of rings involving certain polynomial constraints*

Descriptipn : Let  $m$  greater than or equal to 0 and  $n > 1$  be fixed integers. Let  $R$  be a ring with unity 1 satisfying the condition that, for every  $y$  in  $R$ , there exist polynomials  $f(x)$   $\epsilon$   $X(2)Z[X]$  and  $g(X)$ ,  $h(X)$   $\epsilon$   $Z[X]$  depending on  $y$  such that  $x(m)[x(n),y] = g(y)[x, f(y)]h(y)$  for all  $a$  in  $R$ . The main result of the present paper asserts that  $R$  is commutative if  $R$  has the property  $Q(n)$ , i.e., for all  $x,y$  in  $R$ ,  $n[a,y] = 9$  implies  $[x,y] = 0$ .

Research Type : Article

Research Year : 1998

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