

عنوان مقاله:

A note on maximal non-prime ideals

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خلاصه مقاله:

The rings considered in this article are commutative with identity $\neq 0$. By a proper ideal of a ring R , we mean an ideal I of R such that $I \neq R$. We say that a proper ideal I of a ring R is a maximal non-prime ideal if I is not a prime ideal of R but any proper ideal A of R with $I \subseteq A$ and $I \neq A$ is a prime ideal. That is, among all the proper ideals of R , I is maximal with respect to the property of being not a prime ideal. The concept of maximal non-maximal ideal and maximal non-primary ideal of a ring can be similarly defined. The aim of this article is to characterize ideals I of a ring R such that I is a maximal non-prime (respectively, a maximal non maximal, a maximal non-primary) ideal of R .

کلمات کلیدی:

Maximal non-prime ideal, maximal non-maximal ideal, maximal non-primary ideal, maximal non-irreducible ideal

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