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Commutative Algebra Chapter 1: Rings And Ideals
1 A Ring A Is Commutative When $xy = yx$ For All $x, y \in A$
2 A: 2 An Identity Element
1 2A Is Such That $1x = x1 = x$ For All $x \in A$
2A: Such An Element Is Unique. Remark By A Ring We Shall Always Mean A Commutative Ring With An Identity Element. Remark If $1 = 0$, Then $x = 1x = 0x = 0$, And So 0 Is The Unique Ele Feb 1th, 2024
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Algebra Commutative Algebra Assignment #11 Due Nov. 19, 2014 *1. Prove The Noether Normalization Lemma: Let K be a finite field and $R = 0$ a finitely generated algebra over K . Then there exist $y_1, \dots, y_r \in R$ which are algebraically independent (that is, the subring they generate is isomorphic to a polynomial ring).
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