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Commutative Algebra - Rutgers University References [1] M.F. Atiyah And I.G. Macdonald, Introduction To Commutative Algebra, Addison-Wesley, 1969 [2] W. Bruns And J. Herzog, Cohen-Macaulay Rings, Cambridge University Press, 1993 [3] H. Matsumura, Commutative Ring Theory, Cambridge University Press, 1986 [4] W.W. Adams And P. Feb 22th, 2024 Math 619X: Commutative Algebra Matsumura, Eisenbud, Serre, And Atiyah-Macdonald Content In This Class We Will Cover The Theory Of Commutative Rings, Primarily Focusing On Noetherian And Local Rings And Their Applications To Algebraic Geometry. Referring To The Notes, We Will Cover Most Of Chapters 0-5 Jan 5th, 2024 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 Jan 20th, 2024. Mathematics G4241x Commutative Algebra Commutative Algebra Assignment #11 Due Nov. 19, 2014 \*1. Prove The Noether Normalization Lemma: Let  $K$  be An In Nite Eld And  $R = K[x_1, \dots, x_n]$  A Nitely Gen-erated 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 Pol Feb 22th, 2024

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