Contents

1	Notes	2
Ι	Hartshorne	3
2	Definition: Irreducible	3
3	Example 1.1.3. 3.1	3
4	Example 1.1.4.	3
5	Definition.	3
6	Prop 1.2 (d)	3
7	Theorem 1.3A. Hilbert's Nullstellensatz 7.1	4
8	Definition. Height	4
9	Proposition 1.7.	4
10	Theorem 1.8A.	4
11	Proposition 1.10.	4
12	Proposition 1.13.	5
13	Exercise 1.1. 13.1 (a)	15 E5 E5
14	Exericse 1.2. 14.1	5
15	Exercise 1.4. 15.1	5
16	Exercise 1.7. 16.1 (a)	6

33		14 14 14
34		14 14 15
35	Definition: Dominant Rational Map 35.1 35.2 35.3 A Pathological Example 35.4 35.5 Composing Dominant Rational Maps 35.6	15 15 15 16 16 16
36	Lemma 4.2.	16
37	Definition Blowing Up	17
38	Exercise 4.1.	17
39	Exercise 4.2.	17
40	Exercise 5.1. 40.1 (a)	18 18 18 19 19
41	Exercise 5.3. 41.1 (a)	19 19 20
42	Exercise 5.6. 42.1 (a)	20 20 21 21 21
43	Exercise 5.12. 43.1 (a)	21 21 22
44	Exercise 6.1. 44.1 (a)	23 23