

ALGEBRAIC GEOMETRY

REVIEW SHEET

I expect you will be able to solve problems such as those on the first two midterms and the homework (Mason, multiplicity, Bezout, homogenization, projective closure, local field, maximal ideal, coordinate ring, ...). In addition you should know how to compute the divisor of functions in the field of rational functions over the affine and the projective line; how to find a basis for $H^0(D)$ for divisors of small degree (say for $D = (1)$, $D = (1) + (2)$, $D = 2(1) - (3)$ etc.).