ALGEBRAIC CURVES W4045

1. Homework, week 3, due September 29

In what follows, k is a field. If necessary, you may assume k is algebraically closed.

1. Find a change of variable that transforms the curve $y^2 = 4 - x^3$ into Legendre normal form

 $v^2 = u(u-1)(u-\lambda).$

2. Exercises 2.1, 2.2, 2.3 in the Reid book.