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.